

**CU**

# AMIGA

THE MAGAZINE FOR A500, A500+, A600 & A1200 OWNERS

GOLD DISK'S  
**HYPERBOOK**  
NEW STEP-BY-STEP GUIDE

**WORTH £50**  
COMPLETE WORD PROCESSOR PACKAGE

**DISK 62** A500, A500+, A600, A1200 COMPATIBLE **CU AMIGA**

Saturday in Nov  
s approa

TOP RATED  
**WORD  
PROCESSOR**

The FULL program, the FULL Value - A grand total of 4 disks are compressed onto this one to give you this Top Rated fully featured word-processor with the largest English dictionary available on the Amiga. You can't get a better deal than this.

**INTERWORD**  
By Interactivision

**NO DISK ATTACHED?**  
ASK YOUR NEWSAGENT

**DISK 63** A500, A500+, A600, A1200 COMPATIBLE **CU AMIGA**

Chopper and Desert Strike are has-beens, as Virgin's Apocalypse takes to the skies. This awesome helicopter blast features arcade quality graphics with stunning digitised sound effects. As the pilot of a super-charged helicopter gunship, your orders are to deal with insurgency wherever it rears its head. So strap yourself in for a seat-of-the-pants playable demo of the hottest game around. If it moves, just blow it apart!

**APOCALYPSE**

1Mb ONLY

Virgin GAMES

**NO DISK ATTACHED?**  
ASK YOUR NEWSAGENT

**WORLD EXCLUSIVE!**

## AMIGA CD CONSOLE

**THE WORLD'S FIRST  
32 BIT GAMES MACHINE  
FULL STORY INSIDE!**



**32-BIT CD CONSOLE WITH AGA GRAPHICS ● EIGHTY GAMES  
IN DEVELOPMENT ● FULL MOTION VIDEO CAPABILITY ●  
A1200/A4000 CD COMPATIBLE DRIVE ANNOUNCED....**

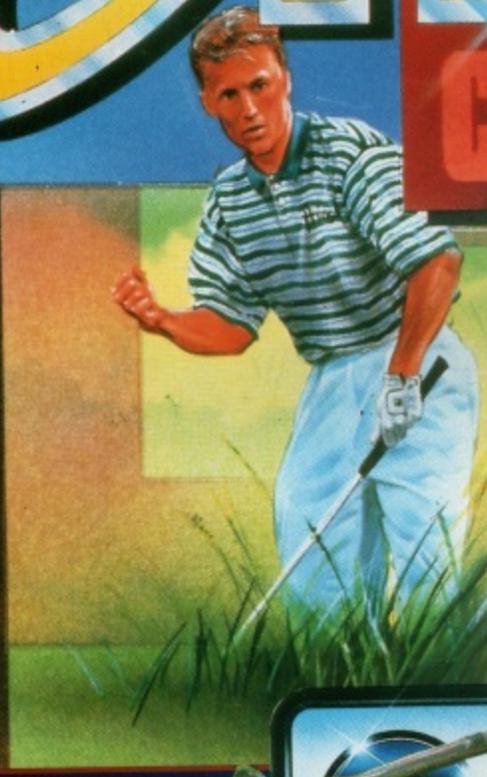
**MASSIVE BUYER'S GUIDE INSIDE!**  
**TRANSFORM YOUR AMIGA INTO A SUPER MACHINE**  
HARD DRIVES, MEMORY EXPANSIONS AND ACCELERATORS ON TEST!

AUGUST £3.95  
US\$7.95 CA\$9.95 DM20  
PTA 995 L13600 ASCH 170  
AN EMAP PUBLICATION





INTERNATIONAL  
**OPEN GOLF**  
CHAMPIONSHIP



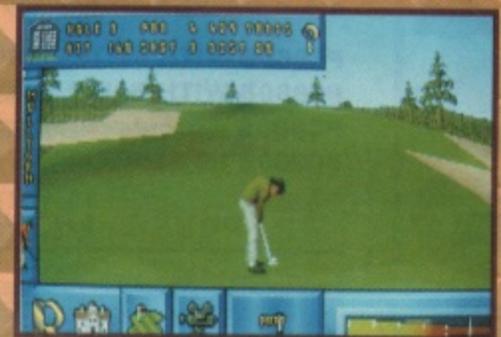
# PLAY "THE GREATEST GAME IN THE WORLD"

A GOLF SIMULATION THAT WILL WEDGE YOU INTO YOUR SEAT FOR HOUR AFTER HOUR AS YOU ENJOY THE FINESSE OF THE GAMEPLAY, THE BREATHTAKING GRAPHICS AND AN EXHILARATING ROUND OF GOLF.

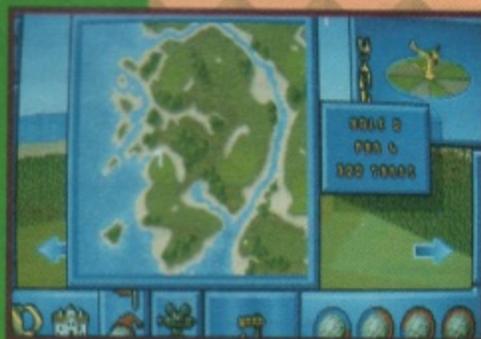


INTERNATIONAL OPEN GOLF CHAMPIONSHIP EMPLOYS FEATURES THAT ENHANCE THE GAMEPLAY LIKE NO OTHER GOLF SIMULATION. THE ONLY THING BETWEEN A BOGIE AND A BIRDIE IS YOUR ABILITY.

REPLAY YOUR SHOTS FROM VARIOUS ANGLES TO CHECK YOUR TECHNIQUE.



SELECT TO PLAY SOLO, OR WITH FRIENDS, FROM SEVERAL TYPES OF COMPETITION INCLUDING SKINS WHERE YOU CAN PLAY FOR A SUM OF MONEY FOR EACH HOLE. SELECT YOUR CLUB, ADDRESS THE TEE AND STRIKE OFF DOWN THE FAIRWAY FOR A ROUND LIKE YOU'VE NEVER PLAYED BEFORE.



AVAILABLE FOR  
CBM AMIGA  
IBM PC

**ocean**<sup>®</sup>

IN ASSOCIATION WITH  
**Pringle**  
OF SCOTLAND

# power computing

technical hotline  
**0234 841882**

## PC880B POWER DRIVE

The award winning external disk drive which includes Anti-Click (cures that annoying click), Virus Blocker (prevents viruses) and built-in Backup hardware.

The PC880B is available with Blitz Amiga, Blitz and X-Copy or Cyclone compatible (this drive is only available to registered owners of X-Copy Professional. You must provide proof of purchase of X-Copy Professional). The drive comes in a choice of two colours, black or cream.

- PC880B WITH BLITZ AMIGA ....£60**
- PC880B WITH BLITZ, X-COPY ..£75**
- PC880B (CYCLONE COMPATIBLE) .....£65**
- PC880B IN BLACK CASE .....£65**

## POWER DRIVES



- PC880E ECONOMY DRIVE ..£49.95**
- PC881 A500 INTERNAL .....£45**
- PC882 A2000 INTERNAL .....£45**

## POWER DUAL DRIVE

Two high quality disk drives built into one compact unit, the drive includes the same features as the PC880B disk drive.

- POWER DUAL DRIVE .....£125**

## BLITZ AMIGA

Backup disks at lightning speeds, and stop all external drives from clicking. Blitz does not let viruses from being written into the bootblocker. (The 1988 Copyright act applies)

- BLITZ AMIGA .....£15**

## FLOPTICAL DISK DRIVE

The Floptical stores 20MB of data on a 3.5" disk (a SCSI interface is required).

- FLOPTICAL A2000 KIT .....£289**
- FLOPTICAL A500 EXTERNAL....£389**

## POWERSCANNER V3.0

The award winning PowerScanner is able to scan from 100 - 400DPI in 64 greyscales. The scanning software included allows you to edit and manipulate any image you scan.

The scanner interface includes a through port for a printer.

- POWERSCANNER V3.0 .....£99**
- POWERSCANNER INC. OCR ...£149**
- OCR SOFTWARE ONLY .....£49**

## COLOUR POWERSCANNER

Scan 100 - 400 DPI in 4096 colours, with the Colour PowerScanner. The scanning software included allows you to edit and manipulate any image you scan.

The scanner interface includes a through port for a printer.

- COLOUR POWERSCANNER ....£239**

## POWERSCAN UPGRADES

If you consider your scanner system to be inferior to the Power Scanner, we will upgrade your software and interface.

- V3.0 UPGRADE (INC INTERFACE) ..£49.95**
- V3.0 UPGRADE (SOFTWARE, SEND SAE) £15**

## EPSON GT-6500

High resolution 24-bit colour flatbed scanning from Epson. Scan up to A4 in size on this 600 DPI scanner. Comes with PowerScan software.

- EPSON GT-6500 (INC SOFTWARE) ...£799**

## EPSON GT-8000

High resolution 24-bit colour flatbed scanning from Epson. Scan up to A4 in size on this 800 DPI scanner. This is the ultimate in desktop scanning. Comes with PowerScan software.

- EPSON GT-8000 (INC SOFTWARE) ..£1199**

## TRANSPARENCY ADAPTOR

Scan up to 5" x 4" transparencies. Available for the GT - 6500 and GT - 8000 scanners.

- TRANSPARENCY ADAPTOR....£589**

## DOCUMENT FEEDER

Automatic 50-sheet document feeder for the GT-6500 and GT-8000 scanners.

- DOCUMENT FEEDER.....£399**

## A600 MEMORY CARD

1MB RAM with battery backed clock

- A600 1MB RAM .....£39.95**

## PC501+ MEMORY CARD

Our RAM board is designed especially for the A500+ computer and comes with 1MB of RAM on-board to expand your memory to 2MB of chip RAM (fits in the trap-door).

- PC501+ MEMORY CARD .....£35.95**

## 1.5MB RAM BOARD

Fully supports 1MB of chip RAM and is fully compatible with Fatter Agnus (requires Kickstart 1.3 and above, not compatible with A500+. Your Amiga needs to be opened, this may effect your warranty).

- 1.5MB RAM BOARD .....£85**

## 1MB WITH THRU'PORT



Expand your A500's memory up to a total of 2MB without disposing of your existing 512K upgrade (works with 1MB chip RAM, 512K RAM must be 4 chip type or not exceeding 9cm in length. Your Amiga needs to be opened, this may effect your warranty).

- 1MB WITH THRU'PORT .....£49**

## A500 MEMORY CARD

4 Chip 512K RAM expansion with or without battery backed clock.

Free software included (A500+ compatible)

- A500 CARD WITH CLOCK .....£29**
- A500 CARD WITHOUT CLOCK ..£24**

## A500 8MB POWERBOARD

Expand your Amiga from 2MB to 8MB of RAM. Plugs into side slot, full auto config and full through port.

- A500 2MB POWERBOARD ...£129**
- A500 4MB POWERBOARD ....£189**
- A500 8MB POWERBOARD ...£289**
- 1 X 4 ZIP .....£14.95**

## A2000 8MB POWERBOARD

2MB to 8MB RAM expansion for the A2000

- A2000 2MB POWERBOARD ....£99**
- A2000 4MB POWERBOARD ...£149**
- A2000 8MB POWERBOARD ...£239**

## COMMODORE AMIGA

A wide range of Amiga's are available.

A1200 .....	£389
A1200 60MB HD .....	£569
A1200 80MB HD .....	£599
A1200 170MB HD .....	£754
A1200 212MB HD .....	£819
A4000 68040 120MB HD 6MB .....	£2329
A4000 68030 80MB HD 4MB .....	£1129
A4000 68030 80MB HD 2MB .....	£979

## MONITORS

A wide range of monitors are available.

PHILIPS CM8833 MK2 .....	£229
INCLUDES LOTUS 2, ON-SITE MAINTENANCE	
COMMODORE 10845 .....	£199
MULTISYNC MONITOR .....	£POA

## ICD PRODUCTS



ICD sole distributor. Trifecta is SCSI 2 or IDE compatible. (Trifecta EC is only IDE)

TRIFECTA 2000 LX BARE .....	£139
80MB HD .....	£239
160MB HD .....	£329
200MB HD .....	£399
TRIFECTA 500 LX BARE .....	£195
80MB HD .....	£295
160MB HD .....	£359
200MB .....	£459
TRIFECTA 500 EC BARE .....	£145
80MB HD .....	£279
160MB HD .....	£339
200MB HD .....	£419
AD IDE 2 PRIMA BARE .....	£70
80MB HD .....	£245
160MB HD .....	£309
200MB HD .....	£399
PRIMA 3.5" MOUNTING KIT .....	£29
AD IDE 2 NOVIA 60MB HD .....	£259
80MB HD .....	£299
130MB HD .....	£379
212MB HD .....	£499
NOVIA 2.5" MOUNTING KIT .....	£19
ADSPEED AMIGA .....	£119
FLICKER FREE VIDEO 2 .....	£185

## ELECTRIC FINGERS CLUB

The Power BBS is a bulletin board service. Phone 0234 841503. Speeds up to 16.8K

## SUPRA MODEMS

SUPRA FAX MODEM+ .....	£119
(INCLUDING PSU, CABLE AND SOFTWARE)	
SUPRA FAX MODEM 32BIS .....	£249

## HOME MUSIC KIT

HOME MUSIC KIT .....	£69.95
MIDI INTERFACE .....	£15.95

## GVP A530 TURBO HD

A 40 MHz 68030 EC accelerator.

80MB HD 0MB RAM .....	£549
160MB HD 0MB RAM .....	£649
200MB HD 0MB RAM .....	£699
68882 UPGRADE KIT .....	£224

## GVP SERIES 2 HD

External hard drive for the Amiga 500. Expand up to 8MB on-board.

80MB HD .....	£339
160MB HD .....	£409
200MB HD .....	£599
EACH 1MB X 8 SIMM .....	£30

## CHIPS AND SPARES

We stock a wide range of parts and spares.

1MB X 8 SIMM .....	£30
4MB X 8 SIMM .....	£POA
SIMM 32 X 1MB-60 GVP .....	£59
SIMM 32 X 4MB-60 GVP .....	£179
SIMM 32 X 4 .....	£159
SIMM 32 X 8 .....	£369
256K X 4 DRAM .....	£5
1MB X 1 DRAM .....	£4.50
1 X 4 ZIP .....	£14.95
1 X 4 DIP .....	£19.95
PCMCIA 2MB .....	£149
V1.3 KICKSTART ROM .....	£24
V2.04 KICKSTART ROM .....	£32
FATTER AGNUS 8372 .....	£30
BIG FAT AGNUS 8375 .....	£40
HI-RES DENISE .....	£25
GARY .....	£19
PAULA .....	£25
6570-36 KEYBOARD CHIP .....	£19
CIA 8520 .....	£9.95
DATA SWITCHES 2 WAY .....	£15.99
DATA SWITCHES 3 WAY .....	£17.99
DATA SWITCHES 4 WAY .....	£19.99
MODEM CABLE .....	£9.95
PRINTER CABLE .....	£6.95
SCSI CABLE .....	£9.95
IDE CABLE FOR A600, A1200 INC.	
INSTALLATION SOFTWARE .....	£15.95
A500 POWER SUPPLY .....	£39.95
WORKBENCH 2.04 KIT .....	£75

## MISCELLANEOUS

POWERMOUSE .....	£15
OPTICAL MOUSE .....	£29.95
REPLACEMENT OPTICAL MOUSE MAT .....	£10
100 BRANDED DISKS + BOX .....	£69.99
10 BRANDED DISKS .....	£9.95
A1200 DUSTCOVER .....	£5
AVIATOR 1 JOYSTICK .....	£35
INTRUDER 1 JOYSTICK .....	£29.99
MAVERICK 1 JOYSTICK .....	£15.99
PYTHON 1 JOYSTICK .....	£9.99
APACHE 1 JOYSTICK .....	£7.99

## POWER OPTICAL DRIVE

Fit 128MB on one Optical disk.

128MB OPTICAL INTERNAL .....	£849
128MB OPTICAL EXTERNAL .....	£999
128MB 3.5" OPTICAL DISK .....	£39.95
SCSI CONTROLLER A2000 .....	£129

## VIDEO BACKUP SYSTEM

Use a VCR as a backup storage device, 200 Amiga floppy disks fit on to a 4Hr tape which can be used for an alternative hard disk backup system. Whats more, you can watch television on your 1084S monitor.

VIDEO BACKUP SYSTEM .....	£59.95
---------------------------	--------

## BARE SCSI HARD DRIVES

We can supply SCSI or IDE 3.5" drives in many sizes. These hard drives are suitable for GVP G-Force, GVP or ICD.

80MB .....	£179
160MB .....	£249
200MB .....	£349

## 2.5" IDE INTERNAL HD

Miniature hard drives for the A600/A1200 these drives come complete with a cable and installation software.

60MB INTERNAL HD .....	£179
80MB INTERNAL HD .....	£210
130MB INTERNAL HD .....	£299
170MB INTERNAL HD .....	£365
212MB INTERNAL HD .....	£430

## GVP A2000 HARD CARD

High quality SCSI hard card.

BARE .....	£129
80MB .....	£279
160MB .....	£349
200MB .....	£419

## AUTO ROM SHARER

One of the most advanced Rom sharers.

ROM SHARE .....	£19.95
ROM SHARE INC. V2.04 .....	£50
ROM SHARE INC. V1.3 .....	£39
ROM SHARE A600 .....	£29
ROM SHARE A600 INC. V1.3 .....	£55

Power Computing Ltd  
Unit 8 Railton Road  
Woburn Road Ind. Est.  
Kempston Beds  
MK42 7PN

Tel 0234 843388  
Fax 0234 840234

Cheques payable to  
Power Computing Ltd.

Goods are sold subject  
to our standard terms  
and conditions of sale  
and are available on  
request.

Specifications and  
prices are subject to  
change without notice.  
All trademarks are  
acknowledged.  
All prices include VAT.

Tel 0234 843388

delivery 24hr £4.50 48hr £2.50  
parcel post £1 (UK mainland only  
orders under £50)

# CU AMIGA CONTENTS



## 8 AMIGA CD 32-BIT CONSOLE

In a world exclusive, CU AMIGA brings you all there is to know on Commodore's new 32-bit CD console.

This is the future of gaming as we know it. There is simply no other console available that can match this machine. With the addition of full motion video it'll form the future of home entertainment. And with an unprecedented level of support from software developers it's sure to hit the streets with the force of a nuclear explosion. In another CU exclusive we reveal who's coding what and when you'll see it.

Turn to page 8 for the start of a four-page report on the new machine.

## 34 MUSCLE UP

The first peripheral that most of us buy is bound to be some form of memory expansion, hard drive or accelerator. But the market in third party add-ons is enormous; so, how do you know if the hardware is any good?

We've scoured the scene for the best peripherals there are and now we can bring you a comprehensive report on how they perform. It's chock full of comparison charts so you can tell at a glance whether that hard earned dosh is going to be well spent. Remember – don't buy unless you've read it here.



## REGULARS

8

### NEWS

AMIGA CD32 console launched • 80 games already in development • What's the future of the CDTV? • A1200/A4000 CD add-on announced • Full Motion Video by the end of the year...

16

### COVERDISKS

See panel on opposite page.

36

### THE CU AMIGA INTERVIEW

Commodore's Vice-President of Engineering gets grilled by the CU AMIGA team this month. Find out what he has to say about the future.

44

### GAME PREVIEWS

See panel on opposite page.

48

### GAME REVIEWS

See panel on opposite page.

85

### PLAY TO WIN

If you're having trouble handling your

chopper fear not 'cos the CU tipsters are here with a complete guide to *Gunship 2000*.

96

### PRODUCTIVITY REVIEWS

See panel on opposite page.

128

### ART GALLERY

AGA art is starting to show through more and more. This month we feature two excellent examples.

132

### PD SCENE

The public domain has finally thrown up an excellent game. Find out what this miracle is here. Also this issue, more Eric Schwartz anims, plus some whacking demos.

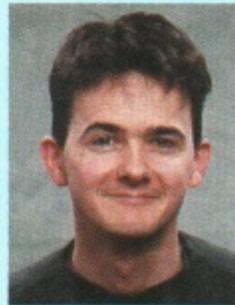
135

### PD UTILITIES

The public domain is the perfect place to look for cheaper alternatives to commercial programs. This month we take a look at an AGA utility compilation, a disk that fills the gaps in the AMOS manual and a snazzy menu creator.

## OFF THE CUFF

EDITORIAL



Dan Slingsby - Editor

Nintendo and Sega are history! After months of speculation, Commodore have finally unveiled their new super console, the Amiga CD32, and it's an absolute

corker. Featuring AGA graphics, the new machine comes equipped with an '020 processor and 2Mb of RAM. What's more, its 32-bit architecture means we're going to see some stunning new games in the coming months, the likes of which have never been seen before. An incredible 80 games are already in development and at least 30 of these will be original titles. Best of all, its world-beating CD technology means we can finally wave goodbye to multi-disk floppy-based games once and for all.

The implications are immense, and some of the product we've seen is simply breathtaking. If the machine takes off, and I honestly think it will, then the games market is set for a revolution. Sega and Nintendo are still some way off launching a CD-based 32-bit console – some estimates put it as much as two years – so Commodore have a chance to monopolise the market. At £299, the Amiga CD32 is almost £100 more expensive than we predicted, but it's still an incredible buy when compared to Sega's lacklustre 16-bit MegaCD. (Shame about the design though...)

Even better news, A1200 and A4000 owners will be able to upgrade their machines with a CD drive which will be launched later this year, so everyone can benefit from the plethora of new titles that are on their way. And it's not just games that are being developed for the machine – as our news section reveals, there's a number of serious titles set for release over the next few months. Full details begin on page 8, and we'll be following it up with a 32-page supplement next month.

Blimey, after all that excitement I think I'd better go and have a cold shower! Enjoy the mag and, hopefully, you'll be back for more next month...

## NEXT ISSUE ON SALE 19TH AUGUST

EDITOR Dan Slingsby DEPUTY EDITOR Jonathan Sloan  
TECHNICAL EDITOR Nick Veitch PRODUCTION EDITOR Heather Turley  
STAFF WRITER Tony Horgan GROUP ART EDITOR Gordon Barrick  
TECHNICAL ADVISORS Mat Broomfield & John Kennedy DISK COMPILER Kenny Grant  
DESIGNER Jo Winslow GROUP AD MANAGER Nigel Taylor  
SCANNING Sara Price AD MANAGER Sean Collings SALES EXECUTIVE Chris Perera  
Kiera Roche AD PRODUCTION Tina Gynn, Robin Ryan  
MANAGING EDITOR Steve James PUBLISHER Garry Williams

CU AMIGA Offices Priority Court, 30-32 Farringdon Lane, London EC1R 3AU. Tel: 071 972 6700 FAX: 071 972 6701  
Distribution - BBC Frontline Ltd, Park House, Park Road, Peterborough PE1 2TR. Tel: 0733 555161  
Subscriptions and Back Issues - Tower Publishing Services Ltd, Tower House, Sovereign Park, Market Harborough, Leics, LE16 9EF  
Tel: 0858-468811 PRINTED IN THE UNITED KINGDOM

ABC

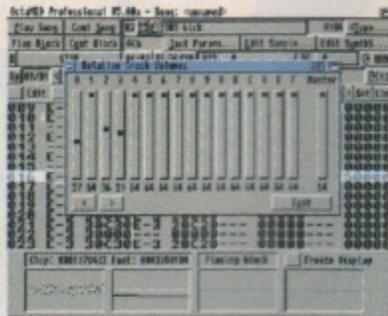
96, 235  
July-Dec 1992

# GET SERIOUS

## PRODUCTIVITY REVIEWS PRODUCTIVITY REVIEW

Welcome to the best dedicated technical review section of any Amiga magazine. This month we bring you a first look at VLab YC. All the way from Germany's MacroSystems comes this excellent SVHS compatible digitiser. It can actually grab images, frame by frame, using the new interleaved frame grabber, find out more on page 98. Also, in response to your massive demands, we've got a complete step-by-step guide to installing a hard drive on your A1200. Get your irons out on page 122.

- 96 XL1 CD
- 97 AMOS
- 97 NCOMMAND PRO
- 97 ILINIOS PROFESSIONAL
- 98 VLAB YC
- 102 PROPER GRAMMAR
- 104 MIGRAPH SCANNER
- 107 GIGAMEM
- 110 OCTAMED v.5
- 114 DELUXE MUSIC
- CONSTRUCTION SET 2
- 119 WORDWORTH FONTS
- 122 INSTALL YOUR OWN  
A1200 HARD DRIVE
- 128 BUYER'S GUIDE TO  
JOYSTICKS



OctaMed has finally reached version 5. It features a new user interface with pull-down menus. Plus, you can now use 64 tracks. But is it any good? See page 110.



As another long-awaited music program hits the streets we send Mat Broomfield on an expedition of discovery. Can he build *Deluxe Music*? Find out on page 114.

# SCREEN SCENE

## GAME REVIEWS GAME REVIEWS GAME REVIEWS

*Jurassic Park* – the game of the movie – is in development. Will it be just another Ocean license? We go behind the scenes. Also this issue, US Gold's massive RPG, *Blade of Destiny*, gets the full treatment. Fancy a burger but worried about the environmental damage it'll cause? Well, you can have your cake and eat it as McDonalds' eco-warriors go on the rampage in *Global Gladiators*. Full review on page 69.

- 52 FIRST IMPRESSIONS
- 56 JURASSIC PARK
- 60 BLADE OF DESTINY
- 64 CASTLES II
- 66 ISHAR AGA
- 66 SIM LIFE AGA
- 69 GLOBAL GLADIATORS
- 70 ANIMATION CLASSICS
- 72 GOAL! COMPO
- 75 CAMPAIGN –  
MISSION DISK
- 75 PROJECT X – ENHANCED
- 76 THE PATRICIAN
- 80 VFM
- 85 PLAY TO WIN –  
GUNSHIP 2000
- 89 TROLL'S HEAD



'The dinosaurs are coming!' Will buyers run in terror from Ocean's license or will it break all records? CU AMIGA goes behind the scenes on page 56.



An RPG that features complex, planned battle sequences. Whatever next? Jon Sloan checks it out on page 60.

# COVERDISKS

Cor, what a pair we've got! And as for the disks, they're not bad either. This month there's an ace wordprocessor, *Interword*, plus, a fantastic playable demo of *Apocalypse*, a frantic blast and rescue game from Virgin. Remember you only get two disks with CU AMIGA.

## DISK 62

PAGE 22

Our recent survey showed us that loads of readers are interested in word processing. So, in response to overwhelming demand, here's one of the best full-price programs there is! *InterWord* is a fast and stable word processing program with new advanced functions including, amongst other things, an optimal utilization of your printer hardware. Moreover, as part of the InterOffice range, it can import and process text from other members of that family as well as most other word processing systems. In addition, it has extremely fast screen updating, a user-definable layout and a massive 137,000 word dictionary. Should you desire, and have the memory, you can also have up to 50 documents open at once. Incredible! Don't miss out on this fantastic package.



## DISK 63

PAGE 28

Anyone remember *Choplifter*? That early arcade classic had gamers hooked right from the start. Well, now's your chance to play a souped up 90s-style flight, shoot and rescue version of that top game. This ace blast from Virgin lets you pilot a helicopter gunship across scrolling levels of tropical jungle. You can blast the opposition out of the sky using your twin forward-mounted cannons or, better yet, pick up one of the many power-ups and then fire off a heat-seeking missile. In between frying the enemy take time to strafe the ground troops and their buildings. Careful though, 'cos they've got some prisoners of war down there, and it's your job to drop down and rescue them. It's been two years in the making so you're in for a treat. All manner of dangers await the fearless pilots so stick the disk in, grab your joystick and get flying!



**CU NEWS**

# AMIGA CD CONSOLE REVEALED

Ending months of speculation as to what their next move would be, Commodore unveiled their plans for a brand new 32-bit console called the CD32. The conference was attended by some of the most experienced journalists in the industry including a three man delegation from CU, and despite a veritable barrage of probing questions, the £299.99 CD32 looked as sweet at the end of the day as it did at the start. In an extended news feature we bring you all the details on the new machine – what it is, what it can do, and what you can play on it...

## A QUESTION OF EXPANSION

One fact that Commodore barely mentioned is the machine's expansion capabilities. These come in the form of a keyboard connector and full expansion bus. With the extras that are planned for release later this year, it will be possible to upgrade the machine to a full A1200, so it can be used for serious applications as well. Even more impressive is the fact that a CD32 kit will be released for the A1200 which will give it full CD capabilities.

Whichever way you upgrade, from A1200 to CD console, or from console to A1200, the total price is likely to be the same, and of course the FMV module will be available under both routes.

I strongly suspect that the CD32 upgrade finally explains the tiny expansion port at the back right of the A1200...

Incidentally, it's also possible to add an accelerator and RAM to the CD32.

Let's start by looking at the facts: the CD console has a slightly larger footprint than a sheet of A4 paper and is a couple of inches deep. It has a slight bulge on the top caused by the top loading CD holder. Unlike the CDTV, the CD32 does not require expensive and ungainly caddies to hold the CDs, they just slot straight in as with a standard CD player.

## GETTING BASIC

The machine is based upon the AGA chipset found in both the A1200 and A4000 Amigas, although its specifications place it closer to an A1200. It is capable of displaying graphics in up to 256,000 colours from a 24-bit palette of 16.7 million at resolutions up to 1280x512 pixels.

Of course, all of those colourful detailed graphics will require a lot of processor power to move them around, which is why Commodore opted for a 14Mhz 68EC020 chip. More than twice as fast as the standard 68000 found in the A500, this was by far the best option in order to keep production prices down. Compare this to the MegaCD's 12Mhz 68000 chip and you start to get an idea just how much more powerful the CD32 really is.

Another important factor when you're talking about moving large amounts of graphic data around is the memory to do it in. There's no point having compact discs capable of storing 600Mb of data if the com-



David Pleasance, the front half of the CBM UK leadership duo.

puter can only accept 128k of that at a time (as is the case with the MegaCD)! Fortunately, Commodore have come up trumps again, providing CD32 with a full 2Mb of RAM.

The console naturally has two joystick ports into which can be plugged two 11 button controllers, yes that's right, 11 buttons! This means that CD32 will have the highest number of buttons on a console controller, which in turn means that owners have the best chance of getting exact conversions of arcade games, to say nothing of plenty of original CD32-only stuff!

In terms of outputs, the machine has an S-Video, a composite video and RF out jacks. It also includes stereo audio jacks for connecting to a hi-fi if you own one. If not, there's also a stereo headphone jack so you can listen through Walkman head-

phones if you prefer. There's even a separate volume control for the headphones.

On the subject of sound, the machine still uses four channels to provide stereo 8-bit sound. However, it's worth remembering that with all that storage capacity, sampling rates can be higher, and samples longer, so we should see a dramatic increase in sound quality. Mind you, that's totally overlooking the most important aspect of the console — it's a CD player, too! This means that programmers can incorporate a full CD soundtrack if they so desire. The CD player uses 256 position 8-bit oversampling.

With its CD playing abilities comes another bonus — the ability to play CD&G disks. CD&G is an acronym for Compact Disc and Graphics, or to put it another way, you can look at pretty pictures, whilst you listen to your favourite star warbling or groaning away. To be fair, CDTV was also capable of playing and displaying CD&G disks, but there is a very, very important difference in CD32, and one that means that this really is world leading technology.

With an appropriate add-on, to be released in the not-too-distant future, the CD32 goes from simply being able to show static photographs, to playing animated ones à la television. Called Full Motion Video (FMV) this means that you could soon be buying CDs that not only contain music tracks, but also include an accompanying video, too.

There are two important factors that allow the CD32 to handle FMV when Sega's rival MegaCD cannot — the first is the fact that the CD32 is able to transfer data from CD at 300 kilobytes per second, twice the rate that the MegaCD is capable of. Furthermore, with the FMV add-on, the unit gains MPEG capability. MPEG stands for the Motion Picture Experts Group and it refers to a special type of picture compression that yields absolutely amazing rates of reduction. It's only really suitable for 'real world' images (digitised photos and video), and is only practical when a hardware implementation of the process is used (it's too slow otherwise). However, MPEG is seen as the future in computer/video animation by many. There are two implementations of MPEG. The CD32 uses version 1 which is targeted at home and non-professional users, whilst version 2 is being used for full broadcast video (TV and satellite).

## AND THE CDTV?

When asked whether or not existing CDTV titles will be compatible with the CD32, Commodore's David Pleasance responded that about 60 per cent of titles would be compatible. Obviously titles that require a keyboard or floppy disk drive will only



The rear view of the console shows the commitment Commodore have made towards making this a machine capable of supporting not only games, but Full Motion Video titles as well. Not only are there composite and modulated outputs, but also an S-Video port for S-VHS compatible images with better resolution than many of today's home videos.

work on CD32s which have the necessary upgrades. It would seem then, that the majority of incompatibilities are due to the new AGA chipset which caused problems for many pre-3.0 software titles.

Although Commodore themselves now admit that CDTV was something of a failure, the technology used did enable them to develop this new console. Although its existence may



Colin Proudfoot, the other half of CBM UK General Manager, and the one with his hand on the corporate wallet.

bring a little hope to CDTV and CD ROM owners, it's highly likely that most developers will produce software that uses the new console's capabilities. This means that software written for the CD32 is unlikely to be downwardly compatible. The main reason for this is that the specs of the two machines are so different that CD32 developers are unlikely to want to spend time developing two separate sets of code, especially when you consider that the total worldwide CDTV market is less than 50,000 units.

Of course developers could write code which simply runs on both machines, but the major problem there is the difference in quality between the two. After all, if you'd just spent a year developing a game, would you want it to lose out simply because it uses 32 colours instead of 256?

## SAVE IT

Because of its games bias the CD32 includes a 1k flash RAM area. This is non-volatile RAM that can be used to store game positions and the like, even after the power has been turned off. Amazingly, this new technology

doesn't even require a battery to work!

Now obviously, 1k is not much at all to save games in and to combat this, publishers are being urged to write games that use password saves or other reduced data methods.

Because the CD32 has the necessary hardware to attach a floppy drive, I don't suppose it'll be long before appropriate drives appear and more complex floppy disk based saves start to appear again.

## NOT JUST GAMES

Commodore describe CD32 as a games console, and of course it's set to be not just a games console, but *the* games console. Nevertheless, there will certainly be serious programs available for it too. At least one software developer has educational products planned, and another has what he would only describe as 'a unique and exciting new concept in computer software'. There is no doubt that we will also see the likes of Encyclopaedias and other reference works.

These titles will ensure that the CD32 is completely unique among games consoles as being the only one to expand your mind as well as your trigger finger — a great advantage if you're trying to convince your parents to buy one for you! **CU**

## WILD SPECULATION

At the CD32's unveiling a journalist voiced a rumour that Commodore was to be taken over by either Nintendo or Sony.

Nintendo, of course, are the makers of the world's most popular games console, the Super NES. However, their arch rivals Sega have just released the MegaCD. As Nintendo don't yet appear to have a CD-based console of their own, it would make sense for them to buy one 'off the shelf' as it were.

Sony, on the other hand, have long enjoyed good relations with Commodore and since the apparent demise of their own CD console project the 'Play Station' they too would appear to be on the lookout for a ready made alternative.

Of course, sceptics might say that this is exactly the kind of thing that Japanese companies are so expert at — let somebody else develop the technology then get hold of it off the shelf and do it cheaper.

The ultimate in crucial clothing has arrived - killer graphics, hottest styles. An awesome range of mega T-shirts featuring your favourite Gamewear titles. The essential computer T-SHIRT SOFTWARE!

# GAME WEAR

C L O T H I N G



## JURASSIC PARK™

ADULTS - £9.99

small - ref 906  
medium - ref 907  
large - ref 908  
X'large - ref 909

KIDS - £7.99

age 7/8 - ref 903  
age 9/10 - ref 904  
age 11/12 - ref 905



## LEMMINGS TRIBES

ADULTS - £10.99

small - ref 120  
medium - ref 121  
large - ref 122  
X'large - ref 123

KIDS - £7.99

age 7/8 - ref 124  
age 9/10 - ref 125  
age 11/12 - ref 126



## STREETFIGHTER II - FIST

KIDS - £7.99

age 7/8 - ref 413  
age 9/10 - ref 414  
age 11/12 - ref 415

ADULTS - £10.99

small - ref 416  
medium - ref 417  
large - ref 418  
X'large - ref 419



ADULTS - £14.99

small - ref 946  
medium - ref 947  
large - ref 948  
X'large - ref 949

KIDS - £11.99

age 7/8 - ref 943  
age 9/10 - ref 944  
age 11/12 - ref 945

JURASSIC PARK

## JURASSIC PARK™ - RED SKY



ADULTS - £10.99

small - ref 130  
medium - ref 131  
large - ref 132  
X'large - ref 133

## LEMMINGS 2 - GERONIMO

**HOT LINE PHONE No: 02 72 76 89 99**

A FREE GAMEWEAR BROCHURE featuring our complete clothing range, including cheats and tips on your favourite games is now available. Just fill in your details and a friends' (if you wish) and post off without delay.

PHONE OUR 24 HOUR VIRTUAL REALITY CREDIT CARD HOTLINE TEL: 02 72 76 89 99 OR SEND A CHEQUE WITH COMPLETED COUPON TO - "BUSINESS ALTERNATIVES LTD". P.O BOX 20, BRISTOL BS99 1QW.

### POSTAGE AND PACKAGING

1 or 2 shirts - £1.50 UK/£2.50 Overseas  
3 to 4 shirts - £2.00 UK/£3.00 Overseas  
5 or more - £2.50 UK/£3.50 Overseas

### APPROX CHEST SIZES (measured flat)

KIDS AGE 7/8 = 16 ins approx  
KIDS AGE 9/10 = 17 ins approx  
KIDS AGE 11/12 = 18 ins approx  
ADULT S = 19 ins approx  
ADULT M = 21 ins approx  
ADULT L = 22 ins approx  
ADULT XL = 23 ins approx

These offers are only available in the UK and Northern Ireland, and while stocks last.

Orders are normally dispatched within 7/10 days, but allow up to 28 days for delivery after

clearance of funds. All shirts are 100% cotton and machine washable.

TITLE - CHRISTIAN/NAME - SURNAME

ADDRESS

POSTCODE

DATE OF BIRTH

We will also send a brochure to your friend, please fill in details below.

NAME

ADDRESS

POSTCODE

Find enclosed my cheque/postal order made out to "BUSINESS ALTERNATIVES LTD" PO BOX 20, BRISTOL BS99 1QW. (remember to put your name and address clearly on the back) or debit my credit card.

VISA  ACCESS  (please tick and enter No below)

(make sure the address given is the same as that registered with your card)

TITLE PLEASE ENTER ONE ITEM PER LINE	REF No	SIZE REQUIRED (SEE CHART)	PRICE
			£ :
			£ :
			£ :
			£ :
			£ :
			£ :
SUB TOTAL			£ :
PLUS POSTAGE PACKING			£ :
TOTAL PRICE OF ORDER			£ :

Tick this box if you do not want to receive any information about other offers we may be running

CUA 893

Signature

Expiry date

PLEASE COMPLETE THIS COUPON IN INK, WRITE CLEARLY AND IN CAPITAL LETTERS

# THE SHAPE

EXCLUSIVE

32bit

AMIGA CD<sup>32</sup>

# OF GAMES TO COME

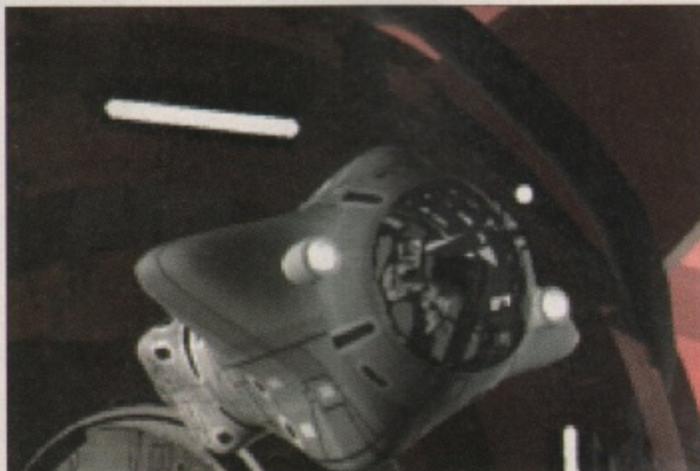
The Amiga CD32 console might be a tasty bit of kit, and it certainly kicks the MegaCD right into touch, but it's the level of publisher support that either makes or breaks a new games platform. Luckily, Commodore have gone out of their way to ensure that the CD32 has an incredible roster of games lined up for its release. There are an amazing 90+ games already in development for the machine and many of these are original products, too! After much burning of the midnight oil, and running up a huge transatlantic 'phone bill, we've managed to come up with a definitive list of exactly what you can expect to be playing on the new Amiga console in the months to come.

## MICROCOSM PSYGNOSIS

This game was previewed in CU a couple of months ago (along with *Dracula*) as a CDTV product. It's extremely unlikely now whether it will make it in that format. However, should Commodore and Psygnosis reach an accord in their discussions it will be a definite for the console.

The plot is essentially a rip-off of the *Fantastic Voyage* and *Inner Space* films with the player acting the role of the miniaturised pilot. You're

dropped into the body of some noted VIP who's been invaded by other miniaturised warriors (don't look at me, I don't write these plots). The idea is that you race around his arteries and veins seeking out the enemy and blowing them out of existence. It uses superb ray-traced graphics to depict the action and certainly moves along at a fair old pace. A definite contender for CD game of the year.



## BULLFROG

Only recently released on floppy, *Syndicate* will shortly make its debut on CD. Those top coders at Bullfrog are already beavering away at re-programming this strategy/blaster to take full advantage of the new machine. As the team are known for their innovation we're sure that they must have more than one product lined up for the console. It's likely that they're also planning at least one totally new game.



## GRANDSLAM

As it was their biggest hit to date it comes a no surprise that *Nick Faldo's Championship Golf* will be making an appearance on the CD32. Scheduled for



October, this top flight golf sim is sure to take full advantage of the CD's capabilities with digitised pics of Nick as well as enhanced backgrounds and music.

## GREMLIN

It's encouraging to see one of the country's top five software houses putting their money where their mouth is and wholeheartedly supporting the new platform. The Sheffield-based softcos have lined up no less than nine titles for the console. Among these, the premier title has to be the *Lotus Turbo Trilogy*. Yes, that's right, Gremlin are combining all three of their hit *Lotus* racing games and including them on one disc. This has to be the way forward and Gremlin are to be congratulated for such a bold move. We're sure it will pay off with record sales of what is the best series of racing games on the Amiga.



Games to appear for the first time include *Litil Devil*, no longer exclusively bound up with Philips' CDI system and which was previewed in CU some months ago. Also in development is a *Star Wars X-Wing Fighter*-type game which will involve loads of 3D flythrough animations where you pilot a craft through hazardous meteor showers whilst tackling other enemy space-ships. We were lucky enough to have a sneak peek at some of the game and it looks absolutely stunning. Finally there's *Utopia 2* and *Zool 2*, both sequels to hugely successful games. It's undecided whether to release them on this format first but if they do A1200 versions are sure to follow at a pace.

On the conversion side Gremlin will be releasing their new *Hero Quest* game - *The Legend of Soracil* - as well as the *Nigel Mansell* racing sim which will benefit from the addition of CD sound. Sports strategy will get a look-in too with an enhanced *Premier Manager* plus top platform romp, *Zool*.



**MICROPROSE**

Famous for their strategy and flight sims Microprose have already signed a license to convert some of their top titles onto the CD32. There's more detail on *The Legacy* in the main section, but they're also set to give us *B17 Flying Fortress*, Sid Meier's groundbreaking god game *Civilisation*, and their famous *Grand Prix* game. All are prime titles for disc, being multiple floppy titles.

**MILLENNIUM**

These Cambridge-based software publishers are wholeheartedly backing the new platform with the release of five titles.

The first, *Diggers*, is pre-viewed in First Imps this month and will be released at the same time as the console itself.



Also new is *Dino Worlds*, an isometric adventure with the player guiding a friendly T-Rex and his companion in their quest to find the meaning of their existence, as well as the popular PC adventure *Daughter of Serpents*, a huge game with some incredibly realistic visuals.

Continuing their links with Flair they have licensed the CD-version of *1884*, a trading game set to include eight minutes of animation. Finally, what Millennium release schedule would be complete without *James Pond* somewhere in it? The second in the series, *Robocod*, will also make the transfer from floppy to CD.

**MINDSCAPE**

Already having mentioned *Liberation* as a contender for the bundle Mindscape are also planning to convert other existing titles. In the works are *Chaos Engine*, everyone's favourite kick-about *Sensible*



*Soccer* and *Sim Life*, Maxis' impressive but highly complicated strategy title. The only really new title is *Drive Fractulus*, a superb flight sim/shoot 'em up using pre-rendered fractal landscapes.

**MIRAGE**

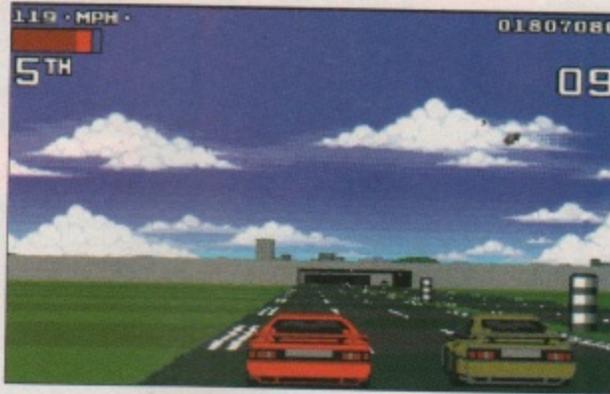
This company's been fairly quiet on the Amiga front recently with their only product being an expansion for *Humans*. However, they have been rather busy with PC CD titles all of which show great potential for console conversion.

*Rise of the Robots* is basically a beat 'em up featuring huge metal warriors. The graphics are incredible with massive ray-traced characters slugging it out. The two other games are both strategy based and include full motion video. *Return to the Lost World* is another dinosaur adventure using stop-motion animated figures and *Space Junk* is an exploration game. Let's hope a license is signed soon.

**LOTUS TURBO TRILOGY**

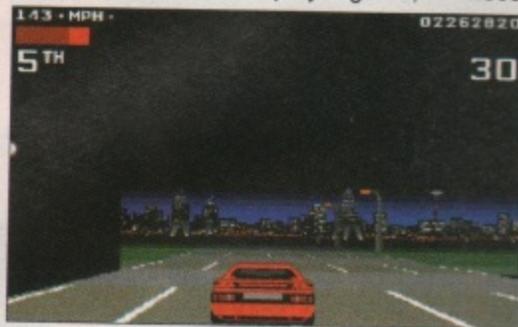
**GREMLIN**

Three games for the price of one - that's the promise from Gremlin as they collect together their chart-topping *Lotus* games and stick them onto one disc. All three games topped the Amiga charts on their release, and with good reason. The first two games offered different methods of control, and different racing arenas, which were then incorporated into a third version which tweaked the gameplay still further to produce the ultimate racing game. Played as either a one, two, three or even four-player game,



the competitive nature of the *Lotus* titles means you'll be battling away for hours with this value-for-money offering. Although the games are slightly lacking in on-screen pick-ups to boost the performance of your car, such add-on extras are not really necessary as the pace of the game,

the huge sprites and super smooth scrolling mean you'll not be able to put this one down once you've loaded your disc. Whether you're competing over desert tracks, across icy mountain passes or merely over circular racing tracks, the testing conditions will really put you through your paces.



**GRAND PRIX**

**MICROPROSE**

Geoff Crammond is one of the few celebrity programmers to have really earned his reputation. With *Stunt Car Racer* and *Revs* already under his belt, he set the Amiga world alight with the release of *Formula One Grand Prix* towards the end of 1991. Super-fast and incredibly detailed, the game used a first person perspective to depict the on-screen action and, at times, it almost felt as if you were really there. Each of the sixteen courses was modelled on an existing F1GP track, with extensive video footage used in designing the twists and turns of their digital counterparts. Now, thanks to those lovely boys and girls at Microprose, we're about to experience all the thrills and spills of Grand Prix racing all over again, but this time in a much souped up version.

This time around we'll be able to enjoy 256 colours, and the game itself will be much, much faster thanks to the console's '020 chip. You'll need quick reflexes to stop your car banking a curve or running out of control on a razor sharp bend. There's also the possibility of enhanced sound effects, too. Although these were fairly impressive in the original 16-bit floppy version, there's scope for extended sampling on the CD-version and Microprose are looking to take maximum advantage from this.

**GOODBYE PIRATES**

For software developers, the CD console is a dream come true. It combines the high specs of an A1200, with virtually unlimited storage capacity and low development costs. Better yet, because commercial CD duplication is so expensive, only professional pirates are able to copy the games, and they're relatively easy to detect and combat.

It's this factor that has kept CDTV alive despite its small market. The CDTV market is one seventy fifth as small as the Amiga market, but for every title sold on the Amiga, 50 are pirated. On the CDTV, there is no piracy problem at all.

Of course, because of the huge amounts of data stored on CDs, most titles will be too large to copy onto floppy disks anyway. This means that far less titles will carry manual-based protection systems which can slow down your entry into a game.

**AKIRA ICE**

Manga fans will be ecstatic to learn that the character that caused such a popularity explosion in the genre will be appearing in his own game. *Akira* is set in a post-Apocalyptic Tokyo and tells the tale of the next stage in human development! Despite such a high-brow premise it's actually an incredibly exciting cartoon movie with rival biker gangs slugging it out across a garish, neon-lit city. One gang member has an encounter with an escaped mutant child which causes him to realise his own super-human capabilities. The resulting trail of destruction is something that could only be feasibly achieved in cartoon form and is amazing to watch.

The game is going to intersperse actual movie footage with the proposed platform and beat 'em up elements that make up the main game. With the huge surge in popularity of Manga this game could actually sell the console by itself.



**GAMES BUNDLE?**

Any good marketing expert knows that a new games machine has to have some kind of bundle deal. In other words you've got to give your consumers some kind of great deal to help get a product off the ground. Commodore have done some brilliant bundle deals in the past and the console is bound to have one too.

Given the release date for the console and the proximity of a certain game-of-a-blockbuster film it doesn't take much effort to put two and two together to come up with *Jurassic Park*. Previewed elsewhere in this issue the game looks set to be as big a smash as the film. Also rumoured to be included in the special pack are *Liberation* from Mindscape and *TFX* (formerly *Inferno*) from Ocean. All three games are graphically intensive actioners that will show the CD off very well. A pack containing those three titles would certainly be very popular at a £349 price point.

# DUNE II™

## BATTLE FOR ARRAKIS

AVAILABLE ON AMIGA

HE WHO CONTROLS THE SPICE...  
CONTROLS THE UNIVERSE.

A WESTWOOD PRODUCTION FOR VIRGIN GAMES

DUNE IS A TRADEMARK OF DINO DE LAURENTIIS CORPORATION  
AND LICENSED TO MCA/UNIVERSAL MERCHANDISING INC.

© 1984 DINO DE LAURENTIIS CORPORATION. ALL RIGHTS RESERVED.

© WESTWOOD STUDIOS INC. ALL RIGHTS RESERVED. (P) 1992 VIRGIN GAMES LTD  
PRODUCED BY BRETT W. SPERRY. DIRECTED BY AARON E. POWELL, LYLE J. HALL.

DESIGNED BY AARON E. POWELL, JOE BOSTIC.

PROGRAMMED BY JOE BOSTIC, SCOTT K. BOWEN.

TEXT BY DONNA J. BUNDY, RICK GUSH.

ART & ANIMATION BY AARON E. POWELL,

REN OLSEN, JUDITH PETERSON, ERIC SHULTS, ELIE ARABIAN.

MUSIC AND SOUND BY FRANK KLEPACKI, DWIGHT OKAHARA.

FOR VIRGIN GAMES UK:

PROJECT CO-ORDINATOR DAN MARCHANT, PETER HICKMAN.

QUALITY ASSURANCE BY JOHN MARTIN, DARREN LLOYD,

KEN JORDAN, RICHARD HEWISON, PAUL COPPINS.

MANUAL LAYOUT BY DEFINITION.

TRANSLATIONS BY POLY LANG.

PACKAGING BY MICK LOWE DESIGN.

ARTWORK & CREATIVE CO-ORDINATION BY

ANDREW WRIGHT & MATT WALKER.

MANUFACTURING CO-ORDINATION

BY ROSEMARIE DALTON.

EUROPEAN MARKETING: ANDREW WRIGHT.

VGA SCREEN SHOTS SHOWN

Westwood  
STUDIOS



>>



**OCEAN**

Still in negotiation with Commodore as we go to print, Ocean seem close to signing a deal to publish most of their top games. *Jurassic Park* would be an obvious candidate for bundle inclusion (see Games Bundle? box), whilst other games would certainly be welcome on the new format.

Existing products include *FA Premier League* and *Sleep Walker* as well as the soon to be published *International Open Championship Golf*, *TFX* (formerly *Inferno*), *Inferno* (formerly *Odyssey*) and *Burning Rubber*. Ocean also have a number of programs still in early development, such as *Mr Nutz*, a Mario-inspired platform romp, *First Contact*, an alien adventure, and *John Doe*, another adventure featuring a character suffering from amnesia.

**PSYGNOSIS**

Although better known for their *Shadow of the Beast* and *Lemmings* games, Psygnosis have just put together two corking games for the PC CD. *Microcosm* (see main text) and *Dracula* were both well received by the trade press when they were screened and received coverage here in CU. *Dracula*'s basically a scrolling beat 'em up/adventure that's more loosely based on the film rather than the book. The idea is to travel through the Transylvanian countryside to Drac's lofty abode smacking all manner of evil dudes on the nose (or wherever) before having a showdown with old toothy himself. A license has not yet been signed for the Amiga version but would seem likely. On a lighter note the *Lemmings* series is bound to make it onto CD32, possibly with all three games on one disc.

**RENEGADE**

Upcoming games from Renegade, the brains behind the smash *Chaos Engine*, include *Rough & Tumble*, *Uridium II* and *Flight of the Amazon Queen*. It is believed that they have agreed in principle to take a CD license but all the details had not been ironed out by the time we went to press with this story.

*Rough & Tumble* stars a small kid with a liking for big guns. The gameplay is essentially a platform shoot 'em up with graphics that make *Magic Pockets* look like a Spectrum game. *Uridium II* on the other hand is the sequel to that classic space blaster of the same name, where your small fighter flew over gigantic battleships destroying everything in sight. It's due for release on the standard Amiga soon so we'll have a full review then. Their third offering, *Flight of the Amazon Queen*, is a bit of a departure for the Renegades as it's a graphic adventure. Not much is known about the project at this stage, they're keeping everything top secret, but we'll have more soon.



**GETTING SERIOUS**

It's not all games you know, there are some people out there who believe that the storage capacity of the compact disc should be put to better use than simple games playing. For those poor unfortunates here's a brief list of the more educational titles already confirmed

Already on PC CD ROM *San Diego Zoo* is a complete walk through of America's largest menagerie. It features Full Motion Video, stills and samples of all the animals contained there. It's

essentially a biology lesson on disc. Imagine being able to visit the zoo with the presenters from *The Really Wild Show* and you'll get some idea of what I mean.

Also scheduled are two books on disc. The first is the CD version of the Guinness Book of Records which will contain the complete text of the famous record book as well as various digitised stills, the second is a former CDTV title called *Insight Technology*. Both will be published by Commodore.

**ALIEN BREED 2**

**TEAM 17**

This *Gauntlet*/*Aliens* cross breed was one of the most successful games of 1992. It utilised a top-down view of the action which covered an abandoned space station absolutely over run with aliens. Up to two players could explore the sprawling station blasting any aliens foolish enough to cross their paths. There were loads of pick ups to collect giving you better fire-power, keys to unlock doors thus saving you wasting ammo shooting them away and auto mapping functions. Its critical and commercial success paved the way for a Special Edition version earlier this year.

In the sequel the action has moved down to a planet once more over run by hordes of aliens. Apart from the



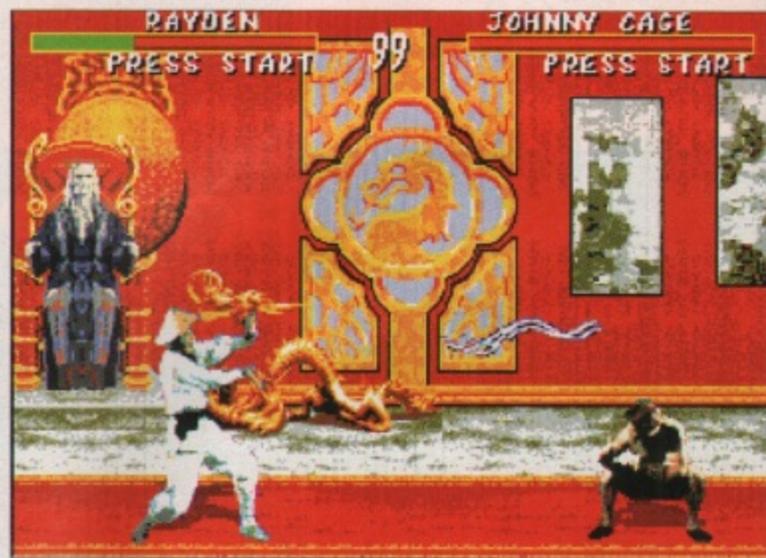
change of scenario Team 17 have listened to the comments made about the original and substantially tweaked the gameplay. There is no doubt that this will be a sure fire hit.

**MORTAL KOMBAT**

**ACCLAIM**

Discussions are going on at the moment for the inclusion of *Mortal Kombat* in the list of forthcoming CD titles. This vicious arcade beat 'em up is about to make it to the Megadrive with a standard Amiga version not far behind.

If you venture down to any arcade these days you're sure to find a *Mortal Kombat* machine or two. In fact, there are signs that it's overtaking *Street Fighter II* in the popularity stakes. It's easy



to see why, too, what with its gory death scenes where victorious characters get the chance to tear out their opponent's spines or punch them onto beds of spears! Controversy and calls for banning are sure to follow closely in the wake of its release on any format.

If you're not familiar with the game play here's a quick run down. You get to play one of seven characters that have gathered on a remote Chinese island for a martial arts tournament. This is no ordinary tournament though - it's a fight to the death with the chance to face all manner of demons along the way. The moves are similar to *SFII* with a huge range of kicks and punches available as well as the usual secret moves.

The Amiga version is being coded by top programmers, Probe, the team that coded *Aliens 3*. We've seen the Megadrive version and it looks great with massive digitised sprites very similar to the arcade machine. We're sure that with the graphics capabilities and the massive storage capacity of the Amiga CD our version will be almost identical to its arcade counterpart.



## LEGACY

### MICROPROSE

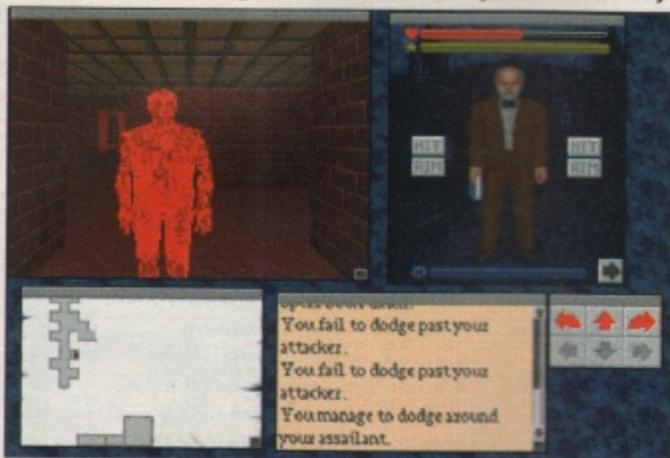
Adventure games are likely to receive a resurgence in popularity with the introduction of the console; it'll finally give Amiga-owners the chance to play all those ace PC adventures that we could only drool about before. One of the first smashes is sure to be this from Microprose.

Set in a haunted New England mansion the game revolves around the main character's attempts to escape – of course the only way to do that is to travel into the deepest darkest depths of the building in order to solve its mysteries. Unluckily

for you this must be the most haunted house in the entire world – move over Amityville – as virtually every room contains ghosts, zombies, ghouls and hundreds of other, more malignant, entities. It's played with the usual point'n click

mouse controls using a unique window environment that can be tailored to your exact needs. If you've ever played Wonderland from Magnetic Scrolls you'll have some idea of how the control system works. That's where the similarities end though 'cos the PC graphics in *Legacy* are out of this world with brilliant filled polygon graphics, texture mapping and goraud shading used to their full effect.

We're unsure how the windows environment will be interpreted on the console but with better graphics and CD sound it will be fantastic.



## AMIGA CD vs. MEGA CD

Because CD games technology is so new, there's very little to compare the CD32 against. One obvious choice is Sega's MegaCD which was launched a couple of months ago with a 28 million pound advertising campaign. I called Sega to ask for the specs of their MegaCD and as soon as they found out that I was working for an Amiga magazine, they refused to help me saying that they didn't want their machine compared against any Commodore competition. Their reaction speaks volumes, but here are the figures that I came up with (without Sega's help!).

	COMMODORE CD32	SEGA MEGACD
CPU	68EC020 @ 14Mhz	68000 @ 12Mhz
Resolution	1280x512	640x320
Colours	256,000	64
Palette	16.8 million colours	256 colours
Sound	4 Channel 8-bit	8 Channel FM
RAM	2Mb upgradable to 128Mb	128K
Save RAM	1k	none
Max Data Transfer Rate	300k per second	150kps
Controller	11 Button pad	4 button pad
Extras	Keyboard, FMV module, accelerator and full range of A1200 add-ons.	Lightgun
Price	£299	£269 + £119 = £388

## SACHS ENTERTAINMENT

We're sure that the console is going to herald a new dawn for the adventure game so it's not surprising that *Defender of the Crown II* will make an appearance on it. Due for release on CD this month this classic RPG game will be a welcome draw for adventure lovers.

## SYSTEM 3

Famous for their Last Ninja series, System 3's most recent Amiga offering



was *Puffy*. Completely original games are few and far between these days but this was such a one. You played a small lump of elasticated goo in a desperate race against time to save your fellow creatures from alien invaders. Utilising your amazing amorphous capabilities you stretched and squashed your way around platforms



avoiding or absorbing all manner of nasties in order to reach your companions. We thought that it was such fun that we even had a special coverdisk commissioned featuring CU AMIGA artwork. Anyway, the sequel is due out soon on the SNES and both that and the original will definitely appear on CD32. Also up for conversion are System 3's excellent *Ninja* series of isometric chop socky adventures.

## 21st CENTURY

Pinball simulations on a computer seem like a pretty stupid idea but when you actually play 21st Century's ace sims you're soon hooked by their frantic flipper action. Using all the tricks and surprises of their real-life counterparts, about the only thing that you can't do on the sims is to tilt the table! As you've probably guessed *Pinball Illusions* and *Fantasies* are two personal favourites here at the CU offices so we're hoping that 21st conclude their discussions soon in favour of the console.



## TEAM 17

Always at the forefront of Amiga innovation, Team 17 have fully committed themselves to the new format. All their major titles will appear on the console in September so we can look forward to beat 'em up action with *Body Blows*, space blasting with *Project X* and fast and furious platform leaping with *Superfrog*. I don't think that there is a magazine anywhere that can really criticise Team 17's games so it's absolutely fantastic that they've decided to go ahead with console development.

## THALION

German-based softco Thalion have a long tradition of bringing quality games to the Amiga and they will be continuing that excellent reputation with the release of *Lionheart* on CD.

Recently released to good reviews the game stars a man-beast in his adventures across a multi-scrolling platform world. One of the brilliant innovations with this title was the way that *Lionheart* could interact with the backdrops. He could actually climb trees and swing from ropes in a way that hadn't really been fully explored before. With the addition of 256 colours and CD sound this game is sure to be one of the stars of the new machine.



## VIRGIN

Richard Branson's top software publishers have long supported the Amiga. As their new *Dune* adventure has appeared on CD ROM it's not surprising to learn that it will also make it to CD32. Other CD ROM titles not yet confirmed include *7th Guest* which is a haunted house mystery using real live

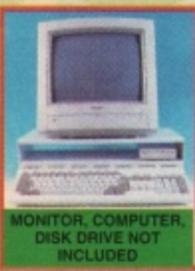
footage to depict all the action. Its clarity and full-screen size have achieved loads of plaudits for Virgin's developers and it's a prime candidate for CD32 especially when the Full Motion Video peripheral is released. We could see some real ground breaking stuff.



Games marked NOP will not work on A500 Plus, A600 or A1200. Games marked NO12 will not work on the A1200.

4TH 'N' INCHES (US FOOTBALL) (NO12) ..8.99	DUNE 2 - BATTLE FOR ARRAKIS (1 MEG) 19.99	JACK NICKLAUS GOLF ..7.99	POPULOUS 2 CHALLENGE ..7.49	SUPERSKI 2 (NO12) ..7.49	FUN SCHOOL SPECIAL ..16.49
588 ATTACK SUB (NO12) ..9.99	DUNGEON MASTER 2 ..19.49	JAGUAR XJ220 (1 MEG) ..7.49	DATA DISK (1 MEG) ..11.99	SWITCHBLADE 2 (NO12) ..8.49	KIDTYPE JUNIOR W/PROCESSOR ..12.99
A-TRAIN (1 MEG) ..24.99	CHADS STRIKES BACK (1 MEG) ..19.49	JAMES POND ..7.49	(CHASE H.Q. TURRICAN, X-OUT, ALTERED BEAST, RAINBOW ISLANDS) ..10.99	SYNDICATE (1 MEG) ..21.99	MEGA MATHS (A' LEVEL COURSE) ..16.49
A320 AIR-BUS (1 MEG) (NO12) ..18.49	ELITE ..11.99	JINKTER (MSCROLLS) ..3.99	POWERMONGER (NO12) ..19.49	THE ADVENTURES (SUPREMACY, HUNTER, CORPORATION) (NO12) ..13.99	CONFORMS TO NATIONAL CURRICULUM ..16.49
ADDAMS FAMILY (1 MEG) ..11.49	ELVIRA 2 - JAWS OF CERBERUS (1 MEG) (NO12) ..22.99	JOHN MADDEN'S (U.S) FOOTBALL ..17.49	POWERMONGER WORLD WAR 1 ..19.49	THE LOST TREASURES OF INFOCOM 1 (20 CLASSIC INFOCOM TEXT ADVENTURES) (NO12) ..27.99	MICRO FRENCH (BEGINNER TO GCSE. CONFORMS TO NATIONAL CURRICULUM) ..16.49
ADVANTAGE TENNIS (NO12) ..16.99	EPIC (1 MEG) ..19.49	KICK OFF 2 (1 MEG) (NO12) ..8.99	PREMIER MANAGER (1 MEG) ..13.49	THUNDERHAWK ..10.49	MICRO GERMAN (BEGINNER TO GCSE. CONFORMS TO NATIONAL CURRICULUM) ..16.49
AFTERBURNER ..7.49	ESCAPE FROM THE PLANET OF THE ROBOT MONSTERS (NO12) ..7.49	KNIGHTMARE ..12.99	PREMIERE (1 MEG) ..11.99	TITUS THE FOX ..8.99	CONFORMS TO NATIONAL CURRICULUM ..16.49
AIR BUCKS ..17.99	ESPAÑA-THE GAMES 92 (1 MEG) (NO12) 19.49	KNIGHTS OF THE SKY (1 MEG) ..13.99	PRIME MOVER ..19.49	TORNADO (1 MEG) ..20.99	MICRO MATHS (11 YRS TO GCSE. CONFORMS TO NATIONAL CURRICULUM) ..16.49
AIR FORCE COMMANDER (1 MEG) ..17.99	EYE OF THE BEHOLDER 2 (1 MEG) 19.99	LAST NINJA 2 (NO12) ..7.49	PRINCE OF PERSIA (1 MEG) ..7.49	TRANSACTICA ..17.99	MICRO SCIENCE (1 MEG) 3 YRS TO GCSE. CONFORMS TO NATIONAL CURRICULUM ..16.49
AIR SEA SUPREMACY (GUNSHIP, SILENT SERVICE, P47, WINGS, CARRIER COMMAND) (NO12) ..13.49	FLAMES OF FREEDOM 2 (1 MEG) ..11.99	LEGEND ..12.99	PRO TENNIS TOUR 2 ..14.99	TROJAN - ALEX (LIGHT PHAZER GAME) ..8.99	NODDY'S PLAYTIME (1 MEG) (EDUCATIONAL PROGRAM FOR CHILDREN AGED 3+) ..16.49
AIR SUPPORT ..18.99	F15 STRIKE EAGLE 2 (1 MEG) ..11.99	LEGENDS OF VALOUR (1 MEG) ..22.99	PROJECT X (SPECIAL EDITION) (1 MEG) ..9.99	TROJAN - CYBER ASSAULT (LIGHT PHAZER GAME) ..8.99	SHOPPING BASKET (6-8 YRS) ..13.49
AIR, LAND & SEA (688 ATTACK SUB, INDY 500, F18 INTERCEPTOR) (NO12) ..22.99	F16 FALCON (SPECTRUM HOLOBYTE) ..10.99	LEMMINGS ..12.49	PUSH-OVER (1 MEG) ..16.99	TROJAN - ENFORCER (LIGHT PHAZER GAME) ..8.99	PAINT POT 2 (4-10 YRS) ..13.49
ALCATRAZ ..16.99	F19 STEALTH FIGHTER (NOP) ..13.99	LEMMINGS 2 ..19.99	PUTTY ..13.99	TROJAN - THE ENFORCER (LIGHT PHAZER GAME) ..8.99	WHICH? WHERE? WHAT? (4-8 YRS) ..13.49
ALIEN BREED (SPECIAL EDITION) (1 MEG) 8.99	FABLES & FIENDS - LEGEND OF KYRANIA (NO12) (1 MEG) ..23.49	LETHAL WEAPON (1 MEG) ..16.99	QUEST & GLORY (BLOODWYCH, MIDWINTER, CADAVER, BAT) (NO12) ..13.99	TURRICAN ..7.49	UTILITY
AMNIONS ..8.99	FANTASTIC WORLDS (REALMS, PIRATES, MEGA LO MANIA, POPULOUS, WONDERLAND) (1 MEG) (NO12) ..22.99	LYONHEART ..17.49	R-TYPE (NO12) ..7.49	TV SPORTS BASEBALL (NO12) ..12.99	3D CONSTRUCTION KIT (WITH VIDEO) 11.39
ANOTHER WORLD ..16.99	FANTASY WORLD DIZZY ..7.49	LORD OF THE RINGS ..16.99	RAGNAROK (NO12) ..21.99	TV SPORTS BOXING (NO12) ..12.99	3D CONSTRUCTION KIT 2 ..11.39
APIDYA ..17.49	FIRE & ICE ..17.49	LOTUS ESPRIT TURBO CHALL (NO12) ..8.49	RAILROAD TYCOON (1 MEG) ..13.99	TV SPORTS FOOTBALL (NO12) ..12.99	AMOS (GAMES CREATOR) ..21.99
APOCALYPSE (1 MEG) ..17.49	FIRST DIVISION ..17.49	LOTUS TURBO CHALLENGE 2 (NO12) ..9.49	RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS, NEW ZEALAND STORY) (NOP) ..10.99	ULTIMA 5 (NO12) ..10.99	AMOS 3D (REQUIRES AMOS) ..21.99
AQUATIC GAMES ..16.99	FIRST SAMURAI ..17.49	LOTUS 3 - THE FINAL CHALLENGE ..11.99	RAVING MAD (MEGA TWINS, JAMES POND 2 - ROBODOC, RODLAND) ..9.49	ULTIMATE GOLF (NO12) ..7.99	AMOS COMPILER (REQUIRES AMOS) ..16.49
ARABIAN NIGHTS ..15.99	FLAME OF FREEDOM (MIDWINTER 2) 11.49	LURE OF THE TEMPTRESS (1 MEG) ..19.99	REACH FOR THE SKIES ..19.99	UNIVERSAL MONSTERS ..16.99	AMOS EASY (FIRST STEPS TO PROGRAMMING) ..21.99
ARCHER MACLEAN'S POOL ..13.99	FLASHBACK (1 MEG) ..20.49	MAGIC WORLDS (STORM MASTER, DRAGONS BREATH, CRYSTALS OF ARBOREA) (NO12) ..15.99	RISKY WOODS ..17.49	UTOPIA + DATA DISK ..11.49	AMOS PROFESSIONAL ..21.99
ARKANOID 2 ..7.49	FLIGHT SIMULATOR 2 (NO12) ..23.99	MAGICALAND DIZZY ..7.49	ROAD RASH ..17.49	VIKINGS - FIELD OF CONQUEST (1 MEG) 10.99	AMOS PROFESSIONAL COMPILER (COMPILES AND SPEEDS UP PROGRAMS WRITTEN IN AMOS, EASY AMOS OR AMOS PROFESSIONAL) ..21.99
ARMOUR-GEDDON 2 ..19.49	FOOTBALL MANAGER 3 (1 MEG) ..14.99	MANCHESTER UNITED ..8.49	ROBIN HOOD LEGEND QUEST ..7.49	VROOM (NO12) ..12.99	DELUXE PAINT 3 (WITH ANIMATION) ..24.99
ASSASSIN (1 MEG) ..11.99	FOOTBALLER OF THE YEAR 2 (NO12) ..8.49	MANCHESTER UNITED EUROPE ..16.99	ROBOCOP 2 (NO12) ..11.49	VROOM DATA DISK (NO12) ..12.49	DELUXE PAINT 4 (1 MEG) ..24.99
AV8B HARRIER ASSAULT ..21.99	FUTURE WARS (NO12) ..17.49	MANIAC MANSION (NO12) ..9.99	ROME (1 MEG) ..19.49	WALKER ..22.49	DELUXE PAINT 4 (AGA FOR AMIGA 1200 WORKS IN 256 COLOUR AND NEW 8-BIT HAM MODE) ..57.99
B17 FLYING FORTRESS (1 MEG) ..22.99	GENESIA (1 MEG) ..17.99	MCDONALD'S LAND ..17.49	SABRE TEAM ..11.49	WHEELS OF FIRE (HARD DRIVEN) ..12.99	DISNEY ANIMATION STUDIO (1 MEG) ..57.99
BATMAN THE MOVIE ..7.49	GOALS 'N' GHOSTS ..7.49	MEGA SPORTS (SUMMER GAMES 1 & 2, WINTER GAMES) (NO12) ..16.99	SECRET OF MONKEY ISLAND (1 MEG) ..13.99	WIZ-KID ..16.99	FINAL COPY 2 WORD PROCESSOR ..16.49
BATTLE ISLE ..13.49	GOALS ..19.99	METAL MUTANT (NO12) ..7.49	SECRET OF MONKEY ISLAND 2 (1 MEG) 23.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	FUN SCHOOL SPECIAL - PAINT 'N' DATABASE (NO12) ..16.49
BATTLE ISLE DATA DISK ..13.99	GOBLINS 2 ..17.99	MICROPHONE 3D GOLF (1 MEG) ..13.99	SENSIBLE SOCCER ('92/'93 SEASON) ..16.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	CREATE EDUCATIONAL ART (5+ YRS) ..34.99
BATTLE OF BRITAIN ..13.99	GODS ..16.99	MIDNIGHT RESISTANCE (NO12) ..7.49	SEYMOUR GOES TO HOLLYWOOD ..7.49	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	HOME ACCOUNTS 2 ..34.99
BATTLETOADS ..17.49	GOLF WORLD CLASS LEADERBOARD ..8.49	MIDWINTER (NO12) ..9.99	SHADOW OF THE BEAST 2 (+ T-SHIRT) ..8.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	HOME OFFICE KIT DELUXE (KIND WORDS 3, MAXI PLAN 4, AND INFOFILE). REQUIRES ONE EXTERNAL DISK DRIVE OR HARD DRIVE. (1 MEG) 58.99
BC KID ..17.49	GRAHAM GOOCH WORLD CLASS CRICKET (1 MEG) ..17.99	MIG 29 (1 MEG) ..9.99	SHADOW OF THE BEAST 3 ..19.49	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	KID PIX (1 MEG) ..16.49
BEACH VOLLEY (NO12) ..7.49	GRAHAM TAYLOR'S SOCCER MANAGER (1 MEG) ..10.99	MONOPOLY ..17.99	SHADOWWORLDS (NO12) ..15.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	KIDTYPE JUNIOR W/PROCESSOR ..12.99
BILL'S TOMATO GAME ..19.99	GREAT NAVAL BATTLES (1 MEG) ..24.99	MONSTER RACK 2 (KILLING GAME) ..16.49	SHOOT-EM-UP CONSTRN KIT (NO12) ..8.49	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	KIND WORDS 3 WORD PROCESSOR ..29.99
BLASTAR (1 MEG) ..13.99	GUNSHIP 2000 (1 MEG) ..22.49	MOTORHEAD ..11.99	SHOW AWESOME, BEAST 2 (NO12) ..14.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	MINI OFFICE W/PROCESSOR, SPREADSHEET, DATABASE AND DISK UTILITIES) ..34.99
BLUES BROTHERS ..8.99	HARLEQUIN ..16.99	NEW ZEALAND STORY (NO12) ..7.49	SILENT SERVICE 2 (1 MEG) (NOP) ..12.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	PEN PAL WORD PROCESSOR ..54.99
BODY BLOWS (1 MEG) ..16.49	HEAD OVER HEELS ..7.49	NICK FALDO'S GOLF ..20.99	SIM CITY & POPULOUS ..16.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	POWERWORKS (MAXIPLAN PLUS SPREADSHEET, KIND WORDS 2 WORD PROCESSOR, INFOFILE DBASE) (NOP) 24.99
BODY BLOWS (A1200 VERSION) ..18.99	HEIMDALL (1 MEG) (NO12) ..11.99	NICKY BOOM ..15.99	SIM CITY DELUXE (SIM CITY, FUTURE CITIES & TERRAIN EDITOR) ..22.49	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	PUBLISHER (PAGE LAYOUT PACKAGE CAN PRODUCE BLACK AND WHITE NEWSLETTERS, FLYERS, ANNUAL REPORTS AND MAGAZINES. REQUIRES ONE EXTERNAL DISK DRIVE OR HARD DRIVE) (1 MEG) (NO12) ..24.99
BOSTON BOMB CLUB (NO12) ..7.49	HEROQUEST (NO12) ..8.49	NIGEL MANSSELL'S WORLD CHAMP'SHIP (1 MEG) ..16.99	SLEEPWALKER ..20.49	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	TECHNOLUS BUSINESS PACK FOR AMIGA (WORDWORTH W/PROCESSOR, K-SPREAD 2 SPREADSHEET + K-DATA DATABASE) (1 MEG) ..71.49
BOXING MANAGER (NO12) ..7.49	HEROQUEST 2 - THE LEGACY OF SORASIL (1 MEG) ..16.99	NIGEL MANSSELL'S WORLD CHAMP'SHIP (A1200 VERSION) ..18.49	SMASH TV ..7.49	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	WORDWORTH V.2 W/PROCESSOR (1 MEG) 71.49
BURNING RUBBER ..17.49	HIREGUNS (1 MEG) ..19.49	NO SECOND PRIZE ..16.49	SOCER KID ..18.49	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	WORDWORTH V1.1E AMIGA 500 + WORD PROCESSOR (SPECIAL ENHANCED 2 MEG VERSION + 1 MEG UPGRADE FOR A500P) ..79.99
CADAVER (NO12) ..11.99	HISTORILINE 1914-18 (1 MEG) ..22.49	NUCLEAR WAR ..9.99	SPACE CRUSADE (NO12) ..12.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	WORDWORTH V1.1E AMIGA 600 WORD PROCESSOR (SPECIAL ENHANCED 2 MEG VERSION + 1 MEG UPGRADE FOR A600) ..84.99
CAESAR (1 MEG) (NO12) ..17.99	HOLLYWOOD COLLECTION (ROBOCOP, GHOSTBUSTERS 2, INDIANA JONES, ACTION, BATMAN THE MOVIE) DIS (NOP) 10.49	OPERATION STEALTH (NO12) ..10.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
CAMPAIGN (1 MEG) ..21.99	HOOK ..11.99	OPERATION WOLF (NO12) ..7.49	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
CAPTIVE ..12.99	HUMANS (NO12) ..17.99	OPERATION WOLF (1 MEG) ..16.49	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
CAPTIVE 2 - LIBERATION (1 MEG) ..19.99	HUMANS DATA DISK (NO12) ..17.99	PANG ..7.49	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
CHAMPIONSHIP MANAGER (1 MEG) ..12.99	HUNTER (NO12) ..7.99	PANZA KICK BOXING (NO12) ..8.49	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
CHAMPIONSHIP MANAGER 93/94 (1 MEG) 17.49	IMMORTAL (NO12) ..9.99	PARASOL STARS ..16.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
CHAOS ENGINE ..16.99	INDIANA JONES ADVENTURE ..10.99	PERFECT GENERAL ..22.49	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
CHUCK ROCK (NO12) ..8.99	INDIANA JONES FATE OF ATLANTIS ADVENTURE (1 MEG) ..23.99	PERFECT GENERAL DATA DISK ..13.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
CHUCK ROCK 2 (1 MEG) ..13.99	INDY JONES (ACTION) ..7.49	PGA TOUR GOLF + COURSES ..19.49	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
CIVILIZATION (1 MEG) ..22.99	INTERNATIONAL OPEN GOLF (OCEAN) (1 MEG) ..16.99	PGA TOUR GOLF COURSE DISK ..11.49	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
COMBAT AIR PATROL ..19.99	INTERNATIONAL RUGBY CHALLENGE 17.49	PINBALL DREAMS (1 MEG) ..12.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
COMBAT CLASSICS (F15 STRIKE EAGLE 2, 688 ATTACK SUB, TEAM YANKEE) (1 MEG) (NO12) ..19.49	ISHAR - LEGEND OF THE FORTRESS (1 MEG) ..10.49	PINBALL FANTASIES ..17.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
COOL WORLD (1 MEG) ..17.49	IT CAME FROM THE DESERT ..15.99	PIRATES (NOP) ..9.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
CORRUPTION (MSCROLLS) ..3.99	IT CAME FROM THE DESERT ..15.99	PITFIGHTER ..7.49	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
COVERT ACTION (1 MEG) ..22.99	IT CAME FROM THE DESERT ..15.99	PLAYER MANAGER (NO12) ..8.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
CRACKDOWN ..6.99	IT CAME FROM THE DESERT ..15.99	POOLS OF DARKNESS ..9.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
CREEPERS ..19.49	IT CAME FROM THE DESERT ..15.99	POPULOUS & PROMISED LANDS (NO12) 9.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
CRYSTAL KINGDOM DIZZY ..12.99	IT CAME FROM THE DESERT ..15.99	POPULOUS & SIM CITY ..16.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
CURSE OF ENCHANTIA (1 MEG) ..19.99	IT CAME FROM THE DESERT ..15.99	POPULOUS 2 (1 MEG) + CHALLENGE DATA DISK ..21.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
D-DAY ..19.99	IT CAME FROM THE DESERT ..15.99	POPULOUS 2 (1 MEG) + CHALLENGE DATA DISK ..21.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
D-GENERATION ..12.99	IT CAME FROM THE DESERT ..15.99	POPULOUS 2 (1 MEG) + CHALLENGE DATA DISK ..21.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
DARK QUEEN OF KRYNN (1 MEG) ..9.99	IT CAME FROM THE DESERT ..15.99	POPULOUS 2 (1 MEG) + CHALLENGE DATA DISK ..21.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
DARKSEED (1 MEG) ..20.99	IT CAME FROM THE DESERT ..15.99	POPULOUS 2 (1 MEG) + CHALLENGE DATA DISK ..21.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
DESERT STRIKE (1 MEG) ..18.99	IT CAME FROM THE DESERT ..15.99	POPULOUS 2 (1 MEG) + CHALLENGE DATA DISK ..21.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
DIZZY PANIC ..7.49	IT CAME FROM THE DESERT ..15.99	POPULOUS 2 (1 MEG) + CHALLENGE DATA DISK ..21.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
DIZZY PRINCE YOLK FOLK ..15.99	IT CAME FROM THE DESERT ..15.99	POPULOUS 2 (1 MEG) + CHALLENGE DATA DISK ..21.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
DIZZY'S EXCELLENT ADVENTURE ..15.99	IT CAME FROM THE DESERT ..15.99	POPULOUS 2 (1 MEG) + CHALLENGE DATA DISK ..21.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	
DUNE (1 MEG) ..19.99	IT CAME FROM THE DESERT ..15.99	POPULOUS 2 (1 MEG) + CHALLENGE DATA DISK ..21.99	SPACE CRUSADE DATA DISK (NO12) ..10.99	WIZARDRY 7 - CRUSADERS OF THE DARK SAVANT (1 MEG) ..28.99	

**BITS'N'PIECES**



DELUXE WORK CENTRES (STEEL MONITOR STAND WITH EXTRA SHELF FOR EXTERNAL DISK DRIVE AND ACCESSORIES, MOUSE HOLDER, MOUSE MAT AND ALL IN ONE DUST COVER) ... 18.99

DELUXE WORK CENTRE FOR AMIGA A1200 42.99

DELUXE WORK CENTRE FOR AMIGA A500 OR A500 PLUS 44.99

PREMIER CONTROL CENTRE FOR AMIGA A600 (STEEL MONITOR STAND WITH EXTRA SHELF FOR EXTERNAL DISK DRIVE AND ACCESSORIES) 32.99



EXTERNAL 3.5" DISK DRIVE FOR AMIGA WITH SONY/CITIZEN DRIVE MECHANISM. 880K FORMATTED CAPACITY, QUIET, HIGH QUALITY, SLIM LINE DESIGN, COLOUR MATCHED METAL CASE AND LONG REACH CONNECTION CABLE. 54.99

**LEADS**

HI-FI LEAD FOR AMIGA (STANDARD PHONO INPUT) ..3.99

MONITOR LEAD FOR AMIGA TO PHILIPS CM8833 MK2 MONITOR ..7.99

SCART LEAD FOR AMIGA TO SONY TV (GIVES MONITOR QUALITY PICTURE) ..9.99

SCART LEAD FOR AMIGA TO TV WITH SCART INPUT (GIVES MONITOR QUALITY PICTURE) ..9.99

SCART LEAD FOR TV TO VIDEO (GIVES EXCEPTIONAL ENHANCED QUALITY PICTURE) ..8.99

AMIGA TO VGA PC MONITOR ADAPTOR (ALLOWS USE OF VGA PC MONITOR ON AMIGA) ..21.99

**MEMORY UPGRADES**

1 MEGABYTE A500 PLUS RAM UPGRADE WITH CLOCK (TECNOPLUS) ..32.99

1 MEGABYTE A600 RAM UPGRADE WITH CLOCK ..34.99

2 MEG PCMCIA UPGRADE FOR A600 OR A1200. PLUGS DIRECTLY INTO SMART CARD SLOT. THESE ARE NOT BATTERY BACKED AND CAN'T BE USED AS A DISK, ONLY AS RAM. ..114.99

4 MEG PCMCIA UPGRADE FOR A600 OR A1200. PLUGS DIRECTLY INTO SMART CARD SLOT. THESE ARE NOT BATTERY BACKED AND CAN'T BE USED AS A DISK, ONLY AS RAM. ..164.99

512K AMIGA RAM WITH CLOCK FOR A500 AND A500+ ..29.99

512K AMIGA RAM WITHOUT CLOCK FOR A500 AND A500+ ..24.99

**DUST COVERS**

DUST COVER FOR A600 ..4.99

DUST COVER FOR AMIGA 500 OR ATARI ST (CLEAR PVC) ..4.99

DUST COVER FOR MONITOR (CLEAR PVC) ..4.99

**MUSIC & VIDEO EQUIPMENT**

VIDI AMIGA 12 (CAPTURES COLOUR IMAGES FROM VIDEO MACHINE OR CAMCORDER. COMPATIBLE WITH TAKE 2, DELUXE PAINT 4 AND MOST ART PACKAGES) ..72.99

FOUR PLAYER JOYSTICK ADAPTOR FOR AMIGA ..7.99

JOYSTICK EXTENDER CABLE FOR AMIGA (3 METRES) ..5.99

**DISKS**

PACK OF 10 TDK 3.5" MF-2DD DISKS (DSDD) ..8.99

**VERBATIM**  
3.5" DSDD DISK  
WITH LABEL  
10 Pack £7.99

27.99 FOR 50

## AMIGA A600

**AMIGA A600 LEMMINGS PACK**  
1 MEG RAM EXPANDABLE TO 2 MEG  
1 YEAR IN-HOME SERVICE WARRANTY  
WORKBENCH 2.0  
MOUSE AND LEMMINGS GAME **189.99**

## AMIGA A1200

**AMIGA A1200 HOME COMPUTER**  
WITH FAST 68020 PROCESSOR  
2 MEG RAM EXPANDABLE TO 4 MEG  
1 YEAR IN-HOME SERVICE WARRANTY  
WORKBENCH 3.0  
MOUSE  
SAVE £34 **359.99**  
WORKS WITH A TELEVISION OR SUITABLE MONITOR VIA RF OR SCART CONNECTION

## AMIGA A4000/030

**AMIGA A4000/030 HOME COMPUTER**  
WITH 80 MEG INTERNAL HARD DRIVE  
POWERFUL 68030 PROCESSOR (25MHz)  
4 MEG RAM (2 MEG CHIP + 2 MEG FAST)  
1 YEAR IN-HOME SERVICE WARRANTY  
WORKBENCH 3.0  
AND MOUSE  
AMIGA COMPATIBLE.  
(PRICE DOES NOT INCLUDE MONITOR) **929.99**

## GOLDSTAR 14" TV/MONITOR

**GOLDSTAR 14" TELEVISION/MONITOR**  
WITH REMOTE CONTROL  
& SCART INPUT  
FREE SCART LEAD **154.99**  
(STATE SNES, SEGA OR AMIGA)  
GIVES PIXEL PERFECT PICTURE

## SONY 14" TELEVISION/MONITOR

**MODEL KVM1400**  
REMOTE CONTROL  
FREE SCART LEAD  
(STATE SNES, SEGA, AMIGA or ST)  
A PRODUCT £20 OFF OUR PRICE OF ANY GAME (OR THE TOTAL OF SEVERAL GAMES) PURCHASED AT THE SAME TIME AS THIS SONY TV

**£20 OFF A GAME OFFER**  
**NEW MODEL 199.99**

SONY TV/MONITOR ENABLES MONITOR QUALITY PICTURE FROM AMIGA, SUPER NES, ST OR MEGADRIVE VIA SCART CONNECTION. ALSO SUITS ALL CONSOLES VIA NORMAL RF INPUT. INCLUDES REAR SCART/EURO, 60 CHANNEL TUNING, BLACK TRINITON SCREEN, TWO POSITION TILT DESIGN FOR CHOICE OF ANGLE.  
INCLUDES LOOP AERIAL. SUPERB QUALITY.

ALSO AVAILABLE IN WHITE AT £199.99  
ALSO AVAILABLE WITH TELETEXT AT 249.99

## PHILIPS 15" FST COLOUR TELEVISION/MONITOR + TELETEXT

**MODEL 15PT161A**  
REMOTE CONTROL  
FREE SCART LEAD **234.99**  
(STATE SNES, SEGA, AMIGA or ST)  
SAVE £15 OFF RRP

AUTO PROGRAMMING, 1 YEAR WARRANTY. ENABLES MONITOR QUALITY PICTURE FROM AMIGA, SUPER NES, MEGADRIVE OR MASTER SYSTEM 1 VIA SCART CONNECTION. ALSO SUITS ATARI ST AND ALL CONSOLES VIA NORMAL RF INPUT. INCLUDES SCART/EURO TO A/V CHANNEL. VERY SMART.

**MORE PRINTERS & MONITORS AVAILABLE - PLEASE PHONE FOR DETAILS 0279 600204**

## CITIZEN 120D+ 9-PIN MONO PRINTER

80 COLUMN, 144 CPS/25NLQ, 2NLQ/1 DRAFT FONT  
2 YEAR WARRANTY  
FREE PRINTER LEAD  
HIGH QUALITY BUDGET PRICED PRINTER **122.99**

## CITIZEN SWIFT 90C 9-PIN COLOUR PRINTER

WITH COLOUR KIT, 9 PIN, 80 COLUMN  
240CPS/54NLQ 6NLQ FONTS, 2 YEAR WARRANTY  
FREE PRINTER LEAD  
A 9 PIN PRINTER WITH COLOUR FACILITY AND FULL PAPER HANDLING FUNCTIONS **167.99**

## CITIZEN 200C 24-PIN COLOUR PRINTER

WITH COLOUR KIT, 24 PIN, 80 COLUMN  
216CPS/72LQ6 LQ/1 DRAFT FONT, AUTOSET FACILITY INPUT DATA BUFFER, AUTO PAPER LOADING ENVELOPE PRINTING, 2 YEAR WARRANTY  
FREE PRINTER LEAD **209.99**

## CITIZEN 240C 24-PIN COLOUR PRINTER

WITH COLOUR KIT, 24 PIN, 80 COLUMN,  
240CPS/80LQ 9 LQ/1 DRAFT FONT,  
2 YEAR WARRANTY  
FREE PRINTER LEAD  
ADVANCED VERSION OF 24E WITH AUTOSET FEATURE AND LCD CONTROL PANEL **259.99**

## CANON BJ10-EX BUBBLE JET PRINTER

64 NOZZLE, 80 COLUMN, 83LQ CPS 2LQ/1 DRAFT FONT, 1 YEAR WARRANTY  
FREE PRINTER LEAD  
A SMALL PORTABLE PRINTER, VERY QUIET IN OPERATION YET GIVING OUTSTANDING PRINT QUALITY. **205.99**

## DISK BOXES

BANX DISK BOX 3.5" (120) STACKABLE .....13.99  
BANX DISK BOX 3.5" (80) STACKABLE .....12.49  
DELUXE DISK BOX 3.5" (80), LOCKABLE, DIVIDERS .....9.99  
DISK BOX 3.5" (10 CAPACITY) .....1.99  
DISK BOX 3.5" (120) LOCKABLE, DIVIDERS .....9.99

## SEGA MEGADRIVE

**SEGA MEGADRIVE + THREE GAME PACK**  
WITH SONIC THE HEDGEHOG  
EA ICE HOCKEY  
JOHN MADDEN'S FOOTBALL  
TWO SEGA JOYPADS  
**129.99**

## SUPER NES

**SUPER NES + STARWING**  
WITH STARWING GAME  
ONE JOYPAD  
SAVE £20.00  
**109.99**

## JOYSTICKS

**BOLLISTICK HAND HELD JOYSTICK FOR AMIGA OR ST WITH AUTOFIRE FUNCTION** 9.99

**CHEETAH BUG JOYSTICK** 13.99

**COMPETITION PRO EXTRA JOYSTICK (CLEAR BASE)** 10.99

**COMPETITION PRO STAR JOYSTICK** 14.99

**FREEWHEEL STEERING WHEEL (DIGITAL) FOR AMIGA SUITS MOST DRIVING GAMES** 25.99

**GRAVIS JOYSTICK FOR AMIGA WITH FOAM PADDED GRIP, ADJUSTABLE HANDLE TENSION AND PROGRAMMABLE FIRE BUTTONS** 23.49

**LOGIC 3 SIGMA-RAY JOYSTICK** 11.99

**MINI COMPETITION PRO 5000 JOYSTICK** 12.99

**MINI COMPETITION PRO STAR JOYSTICK WITH AUTOFIRE** 15.99

**QUICKJOY FOOT PEDAL TRANSFERS ANY JOYSTICK FUNCTIONS TO FOOT PEDALS. IDEAL FOR FLIGHT AND CAR SIM'S. COMPATIBLE WITH MOST AMIGA GAMES.** 19.99

**QUICKJOY JET FIGHTER JOYSTICK** 11.99

**QUICKJOY QJ1 JOYSTICK (MICROSWITCHED)** 7.99

**QUICKJOY TOP STAR JOYSTICK** 19.99

**QUICKSHOT 111A TURBO 2 JOYSTICK** 9.99

**QUICKSHOT 128F MAVERICK 1 JOYSTICK** 12.99

**QUICKSHOT 137F PYTHON JOYSTICK** 9.99

**QUICKSHOT 149 INTRUDER 1 JOYSTICK** 22.99

**QUICKSHOT 155 AVIATOR 1 JOYSTICK** 23.99

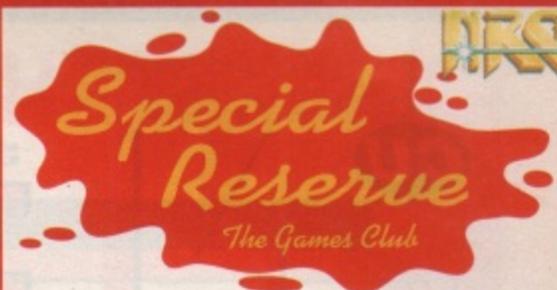
**SPEEDKING ANALOGUE JOYSTICK FOR AMIGA (FOR PROPORTIONAL CONTROL ON SUITABLE SOFTWARE)** 12.99

**SUPER PRO ZIP STICK JOYSTICK FOR AMIGA WITH AUTOFIRE FUNCTION** 12.99

**ZYDEC TRACKBALL** 24.99

**ALPHA OPTIC MOUSE AMIGA OR ATARI ST. 300 DPI** 29.99

**DRAGON MOUSE** .....12.49  
**MOUSE MAT (LIGHT GREY) WITH SPECIAL RESERVE LOGO PRINTED IN RED** .....4.99  
**PORT EXTENSION ADAPTOR FOR AMIGA (CHANGE JOYSTICKS WITHOUT NEEDING TO REACH BEHIND COMPUTER)** .....5.99  
**ROBOSHIFT INTERFACE FOR AMIGA (PLUGS MOUSE & JOYSTICK INTO ONE PORT)** .....12.99



Special Reserve members can have all this... can YOU?

**READ "NRG" Regular Club Magazine**

**CHOOSE from our Huge Selection**

**BUY at Best Possible Prices**

**SAVE with our Special Deals**

**SAVE more with our XS Coupons**

**WIN £60,000 worth of prizes FREE**

**JOIN now from just £4.99**

We only supply members but you can order as you join

There's no obligation to buy and you can be any age. Just send in the form below or phone Sales on 0279 600204.

As a member of Special Reserve you'll receive regular issues of NRG magazine. NRG is our 48 page colour club magazine sent bi-monthly only to Special Reserve members. NRG contains:

1. The best selection of games, peripherals and hardware for all popular formats. We are official Sega, Nintendo and Sony stockists.
2. Reviews in colour and latest information on new products
3. Charts and Release Schedule, to help you choose and plan
4. The best prices. Just one purchase will save you your joining fee
5. Hundreds of Special Offers. Top games at prices you won't believe
6. XS Super Savers. Money-off coupons worth over £180 a year
7. £60,000 worth of prizes per year in our FREE-to-enter BIG TARGET COMPETITIONS. That's £10,000 worth in every issue of NRG, exclusive to members.

That's why over 160,000 people have joined Special Reserve, the biggest games club in the World!

**0279 600204**

9am to 8pm Weekdays, 9am to 5pm Saturday, 10am to 5pm Sunday  
10am to 5pm Bank Holidays. Order/Confirmation/Receipt sent for every order.

THERE IS A SURCHARGE OF 50p PER GAME ON TELEPHONED ORDERS.  
You can also Fax your order to us on: 0279 726842

We pride ourselves on our after-sales service. (18 customer service lines)  
Inevitably some games listed may not yet be available. Please phone sales on 0279 600204 to check availability before ordering. In the event of delay we issue refunds on request at any time prior to despatch. We reserve the right to change prices without prior notification. E. & O.E.

Registered Office & Club Shop: Inter-Mediate Ltd, 2 South Block, The Maltings, Sawbridgeworth, Herts. CM21 9PG.

All prices include VAT and carriage to UK mainland. See base of order form for overseas surcharges. We supply hardware only to UK mainland addresses.

MEMBERSHIP FEES	6 MONTHS TRIAL MEMBERSHIP	ONE YEAR ANNUAL MEMBERSHIP	TWO YEARS WITH FREE HARD BINDER
<b>UK MEMBERS</b>	<b>4.99</b>	<b>7.99</b>	<b>14.99</b>
<b>OVERSEAS EC MEMBERS</b>	6.00	10.00	20.00
<b>OVERSEAS WORLD MEMBERS</b>	7.00	12.00	24.00

WE ONLY SUPPLY MEMBERS BUT YOU CAN ORDER AS YOU JOIN.  
THERE IS A SURCHARGE OF 50p PER GAME ON TELEPHONED ORDERS.  
(PLEASE PRINT IN BLOCK CAPITALS) **SAID**

Name \_\_\_\_\_

Address \_\_\_\_\_

Postcode \_\_\_\_\_

Phone \_\_\_\_\_ Machine \_\_\_\_\_

Enter membership number (if applicable) or **NEW MEMBERSHIP FEE (ANNUAL UK 7.99)**

Item \_\_\_\_\_  
Item \_\_\_\_\_  
Item \_\_\_\_\_  
Item \_\_\_\_\_

ALL PRICES INCLUDE UK POSTAGE & VAT £

Cheque/P.O./Access/Mastercard/Switch/Visa (Switch Issue No. \_\_\_\_\_)

Card expiry date \_\_\_\_\_ Signature \_\_\_\_\_

Cheques payable to: **SPECIAL RESERVE P.O. BOX 847, HARLOW, CM21 9PH**

**Overseas Orders Surcharge (EC or World):** Software orders please add £2.00 per item. Non-software items please add 25%. Hardware items supplied to UK mainland only. Overseas orders must be paid by credit card.

**£2.00 OFF**

Use this coupon to claim a whopping £2.00 off any item bought at the same time as you join Special Reserve Games Club.  
Valid until August 31st 1993. No photocopies accepted.

We only supply official UK products. Official suppliers of all leading brands. We sell games and peripherals all at amazing prices for Magazine, Master System, Game Gear, Super NES, Gameboy, NES, Lynx, Amiga, Atari ST, PC, CD ROM and Apple Mac. And we sell T-shirts and cuddly toys!  
Special Reserve Club Shop at The Maltings, Sawbridgeworth, Herts. Open to 7pm Weekdays and to 5pm Saturdays.

# CU NEWS

## STOCKMARKET GAMBLERS?

If you thought playing *Street Fighter II* was hard you ought to try playing the Stock Market. Rumours are beginning to circulate that both Ocean and US Gold are going to do just that. The main reason that a company decides to float itself on the Stock Market is to raise extra capital from investors.

The stories about possible flotation started after a report in the Sunday Telegraph's City and Business Section and were picked up by trade magazine CTW. However, US Gold's Chairman Geoff Brown has strongly denied that they are considering such action. 'All we're doing is what any other firm is doing. To be in the business we're in is expensive and a lot of companies, from the largest to the smallest, are trying to fund that business... I think that The Telegraph just looked at our end of year results and thought "they're going to need some money" and put two and two together. But we are not going on the Stock Exchange.' Confirmation about Ocean's possible move too was not available.

## GAME WEAR BY OUTER LIMITS

Do not adjust your magazine. We control the horizontal, we control the vertical, and for the next 20 seconds or so (depending on how fast you can read these words) we're going to tell you about some hot new t-shirts. London-based clothing company, Outer Limits, have just released a whole range of t-shirts based on characters from popular computer games. Touting their new tees as 'Softwear', the London-based company has signed up a whole swathe of characters from *Sonic* and *Zool* to *Chuck Rock* and *Lemmings*. Costing an incredibly reasonable £9.99, these trendy fashion accessories will make you incredibly popular at parties and will almost definitely help you pick up women. For further details, ring the Outer Limits' mail order hotline on 0272 768989!



## WIN A FREE TEE

Yes, thanks to the unbridled generosity of Outer Limits, we've got 20 *Street Fighter II* T-shirts up for grabs. Usually costing £9.99 in the shops, these top shirts are the thing to be seen in this summer, winter... this decade really! But I can already hear you screaming for more, so here's how you could win one. Just answer this extremely easy question:

• Which popular US brand of T-shirt advertises itself as 'one that stays T-shaped'?

Quick, run and grab a pen and write the answer on the back of a postcard. Add to this jotting your name, address and size of T-shirt wanted (children or adult). Pop a stamp on the front and finish off by adding this address. 'I Want To Look As Great As Dan' Compo, CU Amiga, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU. All entries to be in as soon as possible. Dan's decision is final and all the usual people are barred from entry. And don't think we don't know your handwriting, Mr. Horgan!



## SPEEDY PRINT

Seikosha have just announced the release of a powerful new inkjet printer, the Speedjet 300. The 300 of the title refers to its exceptionally high print speed of 300 characters per second at 10 CPI in letter quality.

Although the printer uses similar technology to that found in the HP500 and Canon's BJ range of bubble jets, it uses a 128 jet print head capable of printing extremely high quality text using one of three built-in fonts. Strangely, despite its high number of print nozzles, the printer only manages a bog-standard 300 DPI in graphics mode.



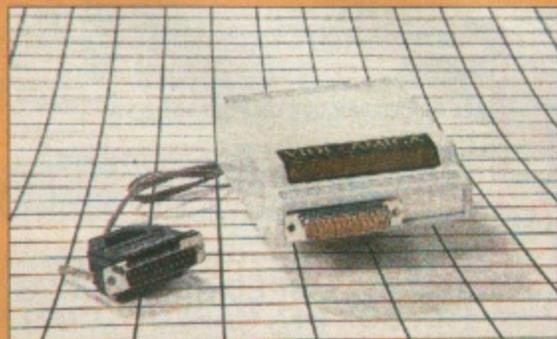
Still, at a recommended retail of only £359.00, the Speedjet offers the highest print rate per pound of any ink jet printer.

## DIGITISERS FOR THE MASSES

Scottish budget digitiser specialists Rombo are putting the finishing touches to what promises to be two exciting additions to their line.

The first of these is called Vidi 12 (RT). RT? Real Time, of course. The digitiser is almost exactly the same as their Vidi 12 unit, but has the additional capability of capturing true 12-bit (4096 colours) images from a live source such as a video player or camera. It can grab in all screen modes including the new AGA displays. At only £199 Vidi 12 (RT) is the cheapest colour real time digitiser available.

Targeting the professional market as well, Rombo have released Vidi 24 (RT) a 24-bit version of Vidi 12 (RT). Again the digitiser is very competitively priced at only £299. Expect a full review of both units soon. In the meantime you can phone Rombo on 0506 414631.



## AWARD WINNERS

Do It Yourself and DTP fans will doubtless be thrilled to learn that EM Computagraphics have got the rights to distribute the Award Construction Kit (ACK). Based quite closely on the old Award Maker program, ACK is described by EMC as a 'fun productivity program which can be used for quickly creating awards and certificates'.

The program is supplied with a variety of borders, typefaces and award styles which enable even the absolute beginner to put a decent-looking certificate together in minutes.

The program retails for £39.95, but for the first two months will carry an introductory price of only £29.95. Contact them on 0255 431389.

EM Computagraphics is a dedicated Amiga DTP Business specialising in the distribution of fonts and clipart.

# New Horizon Computers

The Hard Drive Specialist

## Amiga 1200/Hard Drive

**THIS MONTH'S SPECIAL OFFERS**

**80 MEG  
£530.00**

INC VAT & DELIVERY

**40 MEG  
£475.00**

INC VAT & DELIVERY



Other  
Sizes Available  
Call for Latest Prices

**INCLUDES 2 YR  
EXTENDED WARRANTY**

### HARD DRIVE DIY KITS FOR A1200 OR A600

**INCLUDES HDTOOLBOX AND INSTALL3.0/2.0**

**PHONE FOR LATEST LOW LOW PRICES**

20, 40, 63, 80, 85, 128, 137 & 210 Meg In Stock Now !!!

### ☆☆☆ INSTALLATION ☆☆☆

New Horizon will collect your Amiga, fit the drive of your choice and deliver it back to you within 48 hours. Full 12 month RTB Warranty on your Computer when we install the drive. Wang UK carry out our repairs. Phone our Sales Hotline for further details.

### ☆☆☆ SPECIAL OFFER ☆☆☆

## A1200 BLIZZARD

**32 BIT TRAPDOOR  
MEMORY AND FPU ACCELERATORS**

Includes Real Time Clock and Zero Wait State Memory

MODEL	CONFIGURATION	PRICE
A1200/4	4 MEG 32 BIT FAST MEMORY	£ 169.00
A1200/4A	4 MEG PLUS 14 MHZ 68881	£ 218.00
A1200/4B	4 MEG PLUS 20 MHZ 68882	£ 248.00
A1200/4C	4 MEG PLUS 33 MHZ 68882	£ 288.00
ADD4	ADDITIONAL 4 MEG MEMORY	£ 149.00

## MONITORS



MODEL	SIZE	DOT	RES	SOUND	SCAN	PRICE
Philips 8833 Mk II	14"	.31	LOW	YES	15KHZ	POA
Commodore 1084 ST	14"	.31	LOW	YES	15KHZ	POA
Commodore 1960	14"	.31	MED	NO	MULTI	POA
Commodore 1940	14"	.39	MED	YES	DUAL	POA
Commodore 1942	14"	.28	MED	YES	DUAL	POA
Microvitec Cubscan	14"	.31	MED	NO	MULTI	POA
New Horizon Vanilla	15"	.28	HIGH	NO	MULTI	POA
New Horizon Vanilla	17"	.31	HIGH	NO	MULTI	POA

## HOW TO ORDER



1. By Phone. Next Day Delivery on small items please add £5.00. Next Day Delivery on Computers, Monitors and Printers add £12.00.



2. By Post. Send a cheque or Postal Order made payable to New Horizon Computers and post with your Order to

New Horizon Computers (Mail Order)  
High Hope, Lea,  
Ross on Wye, Herefordshire, HR9 7LN



CREDIT CARDS WELCOME

VISA

SALES HOTLINE 0989 750260 TECH SUPPORT 0989 750337

## » BLUE RIBBON UPGRADES

Since they broke ties with music specialists Zone Distribution, Blue Ribbon have struggled to find another distributor who offered the same level of service.

Now it seems that Meridian are to offer a full upgrade service on all Blue Ribbon products. So far the following prices have been announced: *Superjam V1.0* to *V1.1* £35.99 and *Bars & Pipes V1* to *Bars & Pipes Professional V2* £116.33

Meridian are also offering an upgrade to *Bars & Pipes Professional 2.0* from any other major sequencer (such as *Music X* or even *Deluxe Music*) for £199.95, a saving of £100.00.

It's also nice to see that Meridian are providing a Blue Ribbon technical support line in the UK on 081 332 6959. For details about any of the upgrades phone Meridian on 081 332 6959.



## RUMOUR CORNER



Commodore's shaky financial ground is proving a hot topic for gossip amongst the Amiga cognoscenti at the moment. It is true that CBM UK are going to cease pushing PC product to concentrate on the Amiga, it is true that people have been known to take their services elsewhere in recent times, but it doesn't look likely that the 'Big C' are going

to seek protection from their creditors by filing for bankruptcy.

The situation is not quite so clear in the U.S. though, where recent redundancies and the sale of offices paint a sad corporate picture.

There have even been suggestions that CBM were to be bought out by a variety of both likely and unlikely sharks: Panasonic, Epson, Sony, Apple and a possible consortium headed by GVP and NewTek. The falling price of shares may make such a move easier, but as yet no buyers seem to be snapping.

Joining the long history of outrageously rigged show demos are the pretenders to the console crown, 3DO. At the recent Consumer Electronics Show in Chicago, Panasonic (who are licensed to produce some of the 3DO console players) and 3DO both demonstrated "finished" consoles and software. A quick look behind the scenes revealed that some screens were being driven not by the little players on show, but by a battery of Macintosh Quadras. Other models on show contained dedicated circuitry which was demonstrating only a few of the features promised in the real thing.

People returning A4000 machines due to faults have had to wait rather a long time for repairs. Dealers are not satisfied with the situation because they can't get Wang to fix the faulty units. Wang reckon this is due to Commodore not supplying them with the parts. A spokesman for Commodore admitted that there had been delays, but these had now been sorted out. Part of the problem was a fault discovered on some early A4000s which caused overheating problems.

## MICROPROSE CRASH AND BURN

Things are not well in the flight sim industry after US-based Microprose has been forced into a merger with fellow air enthusiasts, Spectrum Holobyte. It appears that the rumours about the shaky state of Microprose's finances have been confirmed by this move. The merger, set to complete on July 15th, will allow the company to make use of some \$10 million supplied by Spectrum. In return the rival company will own 60 per cent of Microprose, making it the majority owner.

In recent years, the two firms have shared an uneasy alliance despite their rivalry, with the UK arm of Microprose serving as a distributor for Holobyte's European products. Unfortunately Microprose's position has been steadily eroded by a number of failed and mistimed business concepts, including a very late entry into the console market and an unsuccessful attempt to launch an arcade version of its hugely successful *F-15* game. These events have served to drag their earnings deeply into the red. They showed a total loss approaching \$9.4 million in the last financial year.

There is some good news for games players though as there are no plans to drop either the Microprose or Holobyte brands and there will be no substantial changes to the UK or US operations.

## GET YOUR RIBBONS RE-INKED

Despite their general price-friendliness the main problem with dot matrix printers is that sooner or later your ribbon is going to fade. New ribbons are not always very cheap. So it's good news for all that Caspell Computer have just contacted us about their environmentally friendly ribbon re-inking spray. Called simply Re-Ink, a single can of ozone free fluid can be used to refresh between 20 and 40 black ribbons. At an incredibly cheap £12.95 per can, your ribbons can be made as good as new for as little as 33 pence a time! Contact Caspell Computer by phoning 0202 717001.

## CANON DISCOUNTS BUBBLES

Bubble jet technology just took another step towards total affordability with the announcement that the price of Canon's excellent BJ-200 has just been reduced by £70 to £349, excluding VAT. This will mean that the street price will probably be nearer to £250 or even £200.

The BJ-200 is one of Canon's prime home printers capable of printing at speeds up to 173 characters per second. Although this is not exceptional, the fact that it uses bubble jet technology to deliver ink at up to 360 DPI makes it more exciting.

The printer comes with an automatic sheet feeder capable of holding up to 80 sheets of paper, and its unique vertical design means that it occupies very little desk space making it ideal for desktop use.

Its quiet operation (less than 46 decibels) means that it's as friendly to your ears as it is to your pocket. Contact Canon on 0800 252223. Alternatively visit your local computer shop for a demonstration.

## WE NEED YOU

CU Amiga welcomes any hot news or show details that you may have. Send them to NEWS, CU Amiga, Priory Court, 30-32 Farringdon Lane, London, EC1R 3AU. Alternatively you could fax information to us on 071 972 6701. If it's really important, you could phone us on any Friday to let us know what's up.

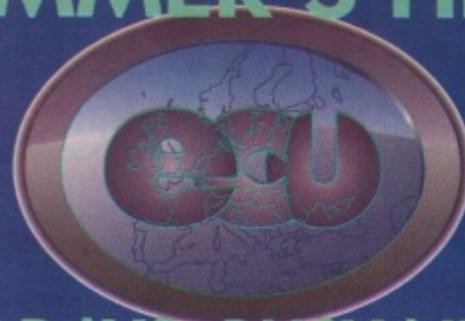
## SHORTS

Gasteiner Technology has just become the official UK distributor for *True Paint*, the premium 24-bit paint package from BSC Software in Germany. Phone Gasteiner on 081 365 1151. • The continuing saga that is *Music X 2* took another turn this week as publishers The Software Business sheepishly announced that it would in fact be delayed for another three months. The reason? Nobody has written any manuals for it! • Printer Ink Company System Insight have just demonstrated their all-new bubble jet refill kit design which features built in syringes for hands-clean cartridge refilling. They've also taken over the manufacture of ink under licence from US company Inkmun. • *Poolmaster* gets a facelift after three years in its original form. Mail order specialists Intraset have finally announced a total revamp of their *Poolmaster* pools prediction software. • Kuma books have just released a book aimed at desk top publishing students. Unimaginatively called 'Students Guide to Desk Top Publishing' the book retails for a very reasonable £9.95 and aims to complement conventional DTP courses such as those offered by many colleges and night schools. • Golden Image are offering their AlfaPower hard drive kit for the A500. Designed to be used with a single 3.5 inch or two 2.5 inch IDE drives, the unit also has space for up to 8Mb of RAM. At £99, it seems fairly priced, although it's questionable how much call there is for an IDE interface on the A500. • Rumours circulated in the trade press this week that both US Gold and Ocean were to go public. US Gold denied the reports, although not absolutely, and Ocean were not available for comment. • Future Publishing have just released two titles aimed at novice users. The diminutive 'Pocket Workbench & AmigaDOS Reference' is horribly over-priced at £9.95, but more reasonably at £19.95 'Get the Most out of your Amiga 93' is a collection of hints, comments and reviews covering everything from games to hardware. • Siren software offer an £80 discount on the 4Mb Turbotech card for the A1200. The card also includes a built-in clock and now retails for the unexcep-

## MINDSCAPE MEANS MONEY

It's not all doom and gloom in the games world this month with the announcement that Mindscape has turned in a profit of over \$3 million for the last year.

Much of that figure is directly attributable to floppy sales which continue to be buoyant despite intense pressure from the cartridge market. The CD-ROM market is turning out to be a good source of profit too with Mindscape claiming that they are the world's largest publisher of that format, having shipped three million discs in three years. With that much time and capital invested in the CD format it's likely that Mindscape will also play a major part in Commodore's new CD32 console.



# COMMODORE WRITES



**Our hotline to Commodore has borne fruit once more. David Pleasance, the UK General Manager, talks about their hopes and plans for the new Amiga CD32.**

## WELCOME

Welcome, once more, to my monthly column dedicated to telling you about what we at Commodore are doing. I'm very pleased to have been

given the opportunity to talk directly with you as it is one of the few ways that you can acquire accurate information about developments here. There are many false rumours circulating on, amongst other things, bulletin boards. It would take far too much space to discuss all those issues in this column but suffice it to say that unless you read it here you cannot guarantee its veracity.

On the subject of rumours you've probably heard a lot about a new 32 bit Amiga CD machine. Well, I can reveal that it does actually exist. In fact, it received its official press launch on 16th July. As you can read more about our amazing new product elsewhere in this issue, I would like to use this space to discuss some of the plans and hopes that we have for its future.

## PRICE AND POWER

We have priced it at £299 retail which is, I believe, a very competitive price for such a high specification machine. When you look at the current state of the market it is clear that a less than £300 price point is actually very cheap. The only thing that you can compare it to realistically at this stage is the Mega CD. In order to get into that technology you first have to purchase a Megadrive at £129 before spending £270 on the CD player. You can work the figures out for yourselves but I think that it is obvious who, on that comparison alone, is offering the better value for money.

In some respects I am actually quite reluctant to compare the two machines simply because technically there is no comparison. We have a machine incorporating 32 bit technology, a 68020 processor and our own AGA chipset which makes it far beyond anything yet available. Also, we have incredible support from software publishers with some 18 games already available at launch. The majority of these have appeared first on the CD and are not basic conversions of existing products. I cannot promise it but it is almost certain that there will be close to 50 games available for the CD32 by Christmas. The nearest that Sega can come to any-



thing like this is placing a story in the trade press saying that they have such a machine but it's over two years away from launch!

## OWN UP

As for existing Amiga owners, you can rest assured that we will continue to support our current machines. We learned a lot from our experience with the CDTV and we have used that knowledge in our design and marketing of the CD32. On the subject of the CDTV, we are presently considering whether to offer an upgrade deal for CDTV owners. A decision has not yet been reached but, as soon as we decide, I will notify you.

One further peripheral that will definitely be available before Christmas is a Full Motion Video add-on. This will give your CD32 the capability to run full screen live action videos direct from CD. The music industry is extremely excited by this and there are a number of albums already available that contain both sound and vision. It won't be long before the film industry too attacks this market with gusto as it gives them the ability to all but eradicate video piracy.

To sum up, you can rest assured that the CD32 really is the future of home entertainment. Commodore has made mistakes in the past when launching new products but we have learnt from them. They will not occur again. This machine has extremely advanced technology, unprecedented software support and the backing of a company with unrivalled experience of both the games and CD market. It will not fail.

*CU AMIGA would like to stress that the views expressed herein do not necessarily reflect those of the publishers.*

## WRITE BACK!

One reason for setting up this column was for it to serve as a direct link between Commodore and our readers. So, what we'd like you to do is get writing. Judging by the volume of mail we receive every month you have plenty to say about Commodore, so now's your chance to put those questions directly to David Pleasance himself. No matter how controversial, no matter how difficult David will endeavour to answer every one.

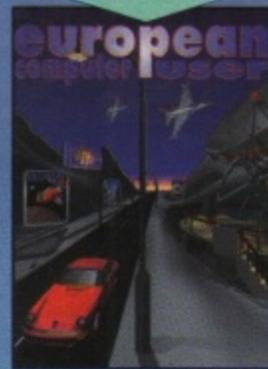
Send your questions to: Commodore Writes, c/o CU Amiga, Priory Court, 30-32 Farringdon Lane, London, EC1R 3AU.

# LAZY DAYS, BUSY NIGHTS

A small selection from the vast range of titles we stock. Phone for a complete price list containing over 600 titles including great value compilations

TITLE	PRICE	TITLE	PRICE	TITLE	PRICE
4D SPORTS BOXING	9.99	HERO QUEST 2	16.99	OH NO! MORE LEMMINGS SJA	10.99
A-320 N AMERICAN	22.99	HILL ST BLUES	7.99	OPEN GOLF	16.99
*ABANDONED PLACES 2	20.99	*HISTORY LINE	21.99	PACIFIC ISLANDS/TEAM Y 2	17.99
ADDAMS FAMILY	7.99	HUMAN RACE JURASSIC LEVELS	16.99	PIRATES	9.99
AMNIOS	10.99	*HUMANS	12.99	POPULOUS & PROMISED LANDS	9.99
AMOS PRO	23.99	HUMANS DATA DISK	13.99	PREMIER MANAGER 2	16.99
ANCIENT WAR IN SKIES	23.99	INDY JONES FATE OF ATLANTIS	25.50	*PRIME MOVER	19.99
*APOCALYPSE	16.99	ISHAR-LEGEND OF FORTRESS	10.99	PROJECT X	9.99
AQUATIC GAMES	10.99	*ISHAR 2	19.99	*RAILROAD TYCOON	17.99
ARABIAN NIGHTS	15.99	KID GLOVES 2	10.99	REACH FOR THE SKIES	19.99
ARMOUR GEDDON	10.99	KID PIX	16.99	ROBOCOD	10.99
ASHES OF EMPIRE	10.99	KNIGHTMARE	10.99	ROBOCOD A1200	15.99
*ATAC	23.99	LEGEND	10.99	ROME AD 92	15.99
ATOMINO	10.99	LEMMINGS 2	19.99	SABRE TEAM	15.99
A-TRAIN	23.99	LEMMINGS DOUBLE PACK	19.99	SCRABBLE	17.99
*A-TRAIN CONS KIT	10.99	*LETHAL WEAPON 3	9.99	SENSIBLE SOCCER 92/93	16.99
B-17 FLYING FORTRESS	23.99	LION HEART	16.99	SHADOWWORLDS	15.99
BARBARIAN 2	10.99	LOOM	10.99	*SILENT SERVICE 2	17.99
BEAST 2	10.99	*LOST TREASURES OF INFOCOM	25.99	SIM CITY DELUXE	25.99
BILL'S TOMATO GAME	10.99	LOST VIKINGS	20.99	SIM CITY/POPULOUS	19.99
BLADE OF DESTINY	27.99	*LOTUS THE FINAL CHALLENGE	13.99	SIM LIFE	23.99
BLUES BROTHERS	10.99	*MAELSTROM	23.99	SOCCER KID	19.99
BODY BLOWS	17.99	MANIAC MANSIONS	9.99	*SPACE HULK	19.99
BOSTON BOMB CLUB	7.99	MAN UTD EUROPE	7.99	SPACE LEGENDS	20.99
*BURNIN' RUBBER	16.99	METAL MUTANT	7.99	STEEL EMPIRE	11.99
*CAMPAIGN MISSION DISKS	11.99	MONKEY ISLAND 1	13.99	SUPER CAULDRON	16.99
CAPTIVE	10.99	MONKEY ISLAND 2	25.50	SUPER FROG	17.99
CHAMPIONSHIP MANAGER 93	16.99	*MONOPOLY	17.99	SUPER TETRIS	13.99
CHAOS ENGINE	16.99	MORPH	15.99	SWIV	7.99
CHUCK ROCK	8.99	NAPOLEONICS	23.99	*SYNDICATE	23.99
CHUCK ROCK 2	16.99			TENNIS CUP 2	7.99
CIVILIZATION	23.99			THE GREATEST	19.99
*COMBAT AIR PATROL	19.99			THEIR FINEST HOUR	15.99
*COOL WORLD	9.99			TRODDERS	10.99
CREATURES	15.99			*UNIVERSAL MONSTERS	16.99
CRYSTALS OF ARBOREA	7.99			WALKER	20.99
CYTRON	10.99			WAR IN THE GULF	20.99
DARKSEED	19.99			WORLDS OF LEGEND	16.99
D-DAY	20.99			*WWF 2	9.99
DESERT STRIKE	20.99			ZOOL	15.99
*DUNE 2	21.99				
EYE OF THE BEHOLDER 2	19.99				
F19 STEALTH FIGHTER	11.99				
FACE OFF	7.99				
FLASHBACK	21.99				
*FORMULA ONE GRAND PRIX	17.99				
GOAL (1 MEG)	21.99				
GRAHAM GOOCH CRICKET	20.99				
GLOBAL EFFECT	12.99				
*GLOBAL GLADIATORS	16.99				
GUNBOAT	9.99				
GUNSHIP 2000	23.99				
HARD NOVA	7.99				

THIS IS THE FRONT COVER OF ISSUE 8 OF THE EUROPEAN COMPUTER USER MAGAZINE. IT IS AVAILABLE THROUGH SUBSCRIPTION ONLY, BUT FOR YOUR COMPLIMENTARY INTRODUCTORY COPY, CALL US TODAY.



TITLE	PRICE
AMIGA INSTRUCTION VIDEOS	
ADVANCED TECHNIQUES WITH D-PAINT	13.99
AMIGA GRAPHICS VOL 1	9.99
ANIMATION VOL 1	9.99
AUDIO PRODUCTION FOR THE AMIGA	11.99
DELUXE PAINT VIDEO GUIDE	13.99
DESKTOP VIDEO VOL 1	11.99
HOW TO ANIMATE	9.99
THE MAGIC OF MUSIC & MIDI	11.99
JOYSTICKS	
MINDSCAPE POWERPLAYERS (MICROSWITCHED)	5.99
QUICKSHOT APACHE	5.99
QUICKSHOT PYTHON	8.99

PHONE HOTLINE: 0480 498889

FAX HOTLINE: 0480 496379

All items are subject to availability. Prices can be subject to change. E & O E.  
 Post and packing: UK = 75p per item 2nd Class; £1.50 per item 1st Class; £1.80 per item 1st Class Recorded.  
 EEC post = £2.75 per item; non-EEC = £3.75 per item;  
 Express Air Mail = £4.75 per item.



Titles marked with a \* may not be released at time of going to press. Please telephone for availability and a full copy of our terms and conditions.  
 Titles marked with a # are available at price shown while stocks last.



NAME

ADDRESS

POSTCODE  PHONE

ITEM  PRICE

ITEM  PRICE

ITEM  PRICE

POSTAGE

TOTAL

Visa/Mastercard/Switch Number:

Switch issue No:  Card Expiry Date:

SIGNATURE:

TICK THIS BOX IF YOU DO NOT WISH TO BE ENTERED ONTO THE ECU DATABASE

Make cheques payable to: European Computer User & send to: Units A2/A3 Edison Rd, St Ives, Huntingdon, CAMBS PE17 4LF

# COVERDISK 62



On this month's coverdisk we have the answer to all your text fantasies. A fully-fledged, fully working word processor, complete with a 115,000 word dictionary. Aren't we nice?

# INTERWORD

## YOUR QUICKSTART GUIDE TO LOADING DISK 62

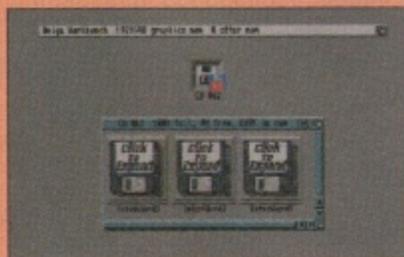
To create your set of Interword disks, all you have to do is follow the steps below



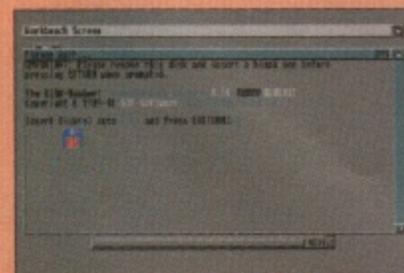
1. Have four disks you don't like anymore ready to be copied onto, and write-protect your coverdisk by moving the plastic tab at the rear until you can see through the hole.



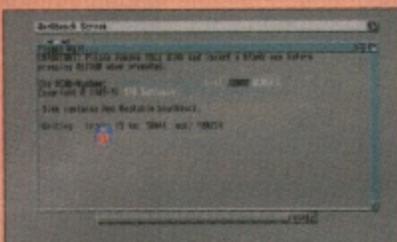
2. Switch on your machine and insert the CU62 disk. Wait for Workbench to load and double click on the disks icon.



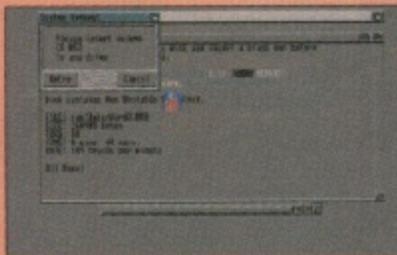
3. A window will appear, containing three disk-like icons. These are the scripts for unarchiving the program and they all work in a similar way.



4. Double click on the icon of the disk you wish to create. A shell will open and the disk will be accessed while the file is copied into RAM. This may take a while, but don't worry.



5. The DMS program will ask you to insert a blank disk. Do not press any keys until you have removed the coverdisk. Take out the coverdisk and insert one of the blank disks. Follow the on-screen prompts.



6. When the disk has been completed you will be asked to replace the disk CU62. Do this.



7. Repeat steps 4 to 6 for the other icons, until you have a set of three disks.

8. The fourth disk is contained on the second coverdisk. Reset your machine and boot from this disk and open the window as before.

9. Repeat steps 4 to 6 for the disk icon that you will find.

10. You now have all four disks of the Interword set.

11. Reset your Amiga Boot from your workbench disk or hard-drive and insert the Interword disk. Double-click on the Interword icon to start the program.

**IMPORTANT** The Interword package has been stored in four compressed files, three of which are contained on Disk 62, the other is on CU Disk 63. You will need both disks handy to uncompress these files, and four blank disks to put them on.

### USING INTERWORD

When *InterWord* has loaded, you'll be greeted by the main window which has some icons at the top of the screen, a couple of scroll bars running down the edge and along the bottom of the window, and a large empty area occupying the main portion of the screen.

The window is where text will appear as you type. When your text reaches the end of a line any words that are too long to fit on the current line will automatically be moved down to the start of the line below, a process known as word wrap. The words in the line above will then be spaced out according to your preference. This is called justification. There are four types of justification represented by the icons at the top right of the screen. The default is Ragged or Left justification. This means that each line of text is lined up against the left hand edge of the page. The next option is Flush justified. When this is selected spaces are inserted in the text so that it is lined up against both edges of the

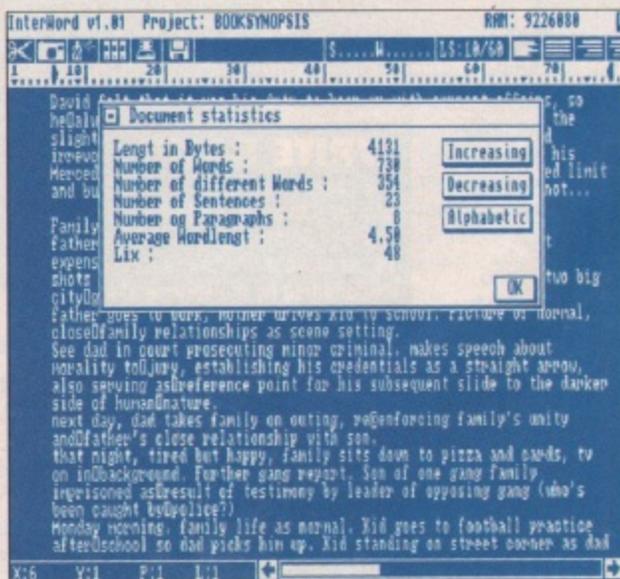
page. Right justification simply lines the text up against the right-hand margin of the page. The final option is Centre justified and it simply aligns the text so that it is an equal distance from each margin.

Speaking of margins, you can set left and right margins using the ruler at the top of the screen. The ruler is divided into characters, and if you look at position 76 you'll see a large arrow pointing back towards the number 70. This is the right margin character. To alter the right margin simply select this arrow with the left mouse button and keeping the button pressed, drag the margin to its new location.

If a block of text is highlighted, the new margin will apply to the highlighted text only. If no text is highlighted the new margin will apply to all text from the current text cursor position.

### TEXT DEFAULT

By default the text cursor is simply a flashing white rectangle, but you can change it to an underline character



using the cursor option in the project/Preferences menu. To highlight a block of text move the pointer to the start of the block of text then press and hold the left mouse button whilst you drag the pointer to

Select the Statistics option and *InterWord* will provide you with information about your document. The most useful of these is called LIX — short for Legibility Index. It tells you how readable your document is.

## DISK VIRUSES

CU AMIGA makes every effort to ensure that viruses do not get on to our disks, and we aim to include a virus checker on the disk whenever possible. Unfortunately, because of the nature of viruses, the virus killers can only be updated to include a new strain when it has already become known - i.e. ruined a few disks and made a nuisance of itself. Fortunately we always have the most advanced virus checkers available when the disk is compiled and every program goes through a rigorous regime of testing before it appears on our coverdisks. However, we can accept no responsibility for possible damage incurred by viruses which may have escaped our attention.

## IF YOUR DISK WON'T LOAD

If your coverdisk doesn't seem to work as it should, then follow this simple guideline. Firstly, remove all unnecessary peripherals, such as printers, modems etc. Follow the instructions on these pages to the letter, and if after that you find that the disk still doesn't work, call the PC Wise helpline on 0685 350505 between 1030 and 1230 Monday to Friday. If they advise you that the disk is faulty, then pop it in an envelope with a covering letter explaining what the problem is to: CU DISK RETURNS, PC WISE, DOWLAIS TOP BUSINESS PARK, MERTHYR TYDFIL, MID-GLAMORGAN, CF46 2YY. Please include 28p per disk to cover postage and packing (55p for overseas readers). Your disk will be tested and a new, working one dispatched to you as soon as possible. Please note that neither we nor PC Wise accept responsibility for any disks damaged due to negligence on the part of the user.

If you misspell a word, click Guess and the spell checker will attempt to provide the correctly spelled version. All that remains is for you to click on the appropriate word and it will replace the duff one.

At the end of the text area that you want to select.

Returning to the subject of margins for a second, you'll notice that the left margin arrow actually consists of two small triangles which can be moved independently of each other.

The top triangle represents the paragraph indent, whilst the bottom one simply denotes the left margin. In word processing terms, whenever you press the Return key to start a new line, you are considered to have begun a new paragraph. *InterWord* will interpret these new paragraphs according to the paragraph indent that you set on the ruler, so if you want your paragraphs to be indented by five characters, simply drag the top triangle five characters to the right of the lower one.

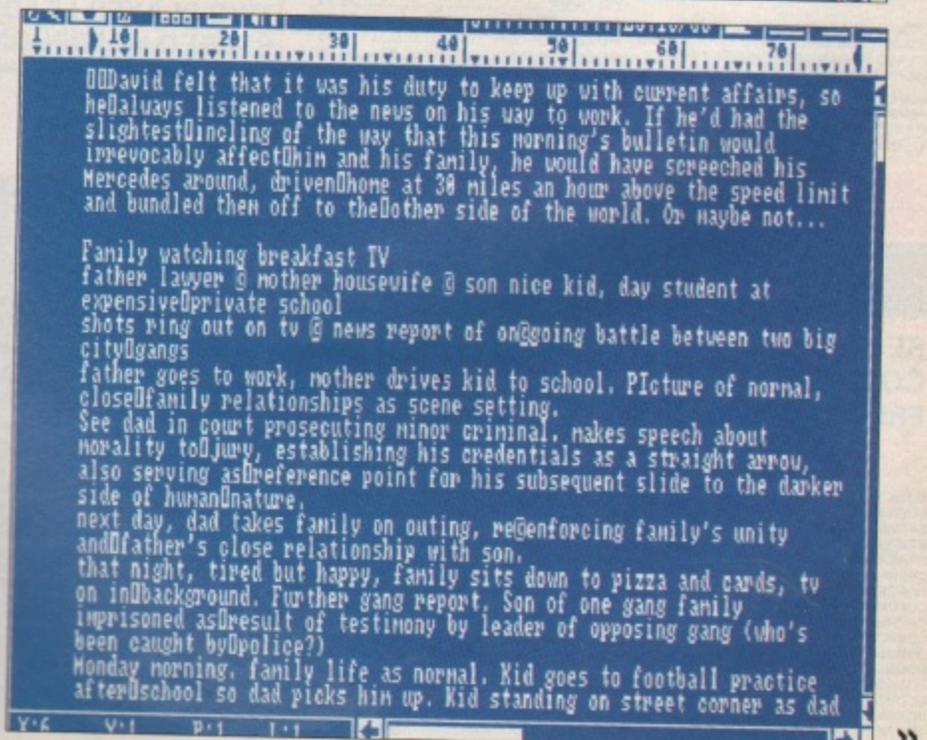
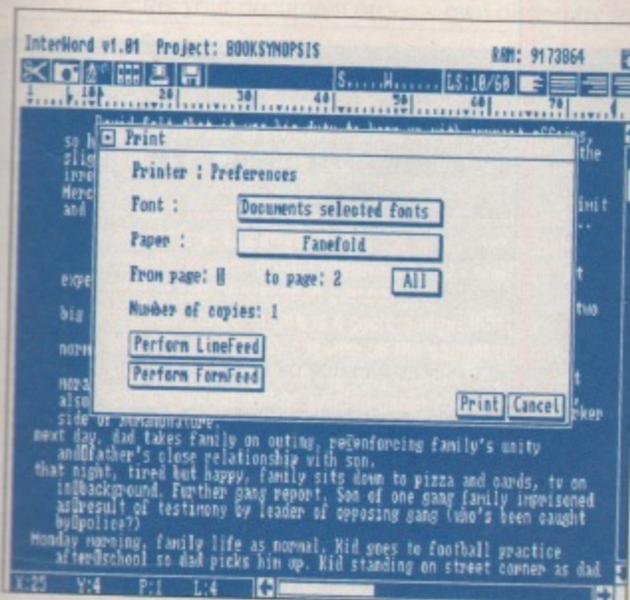
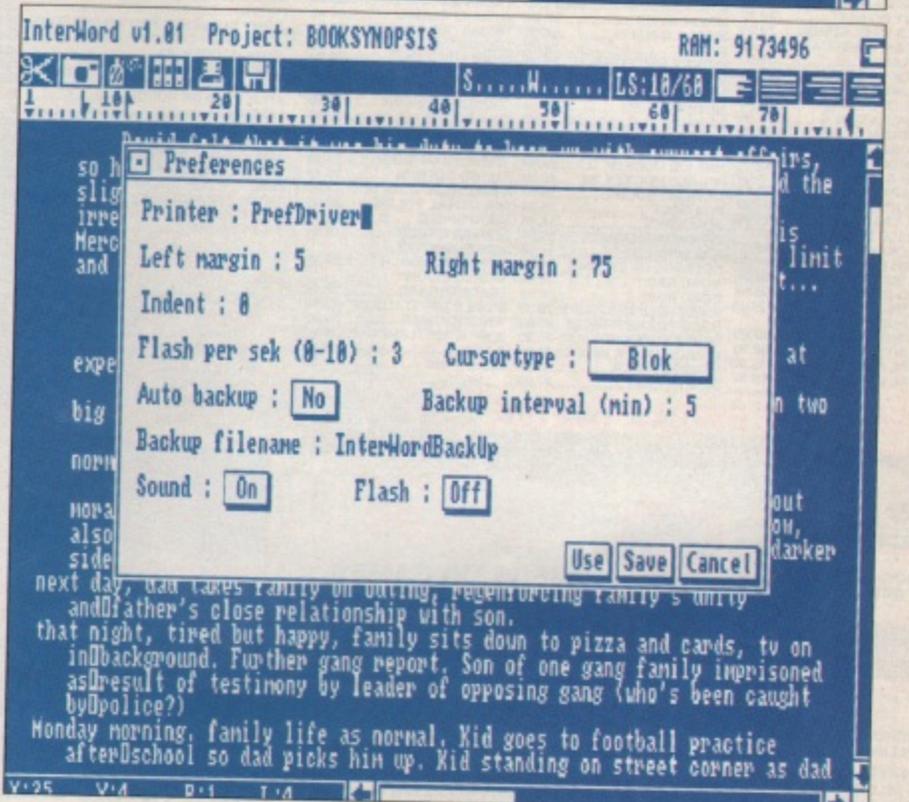
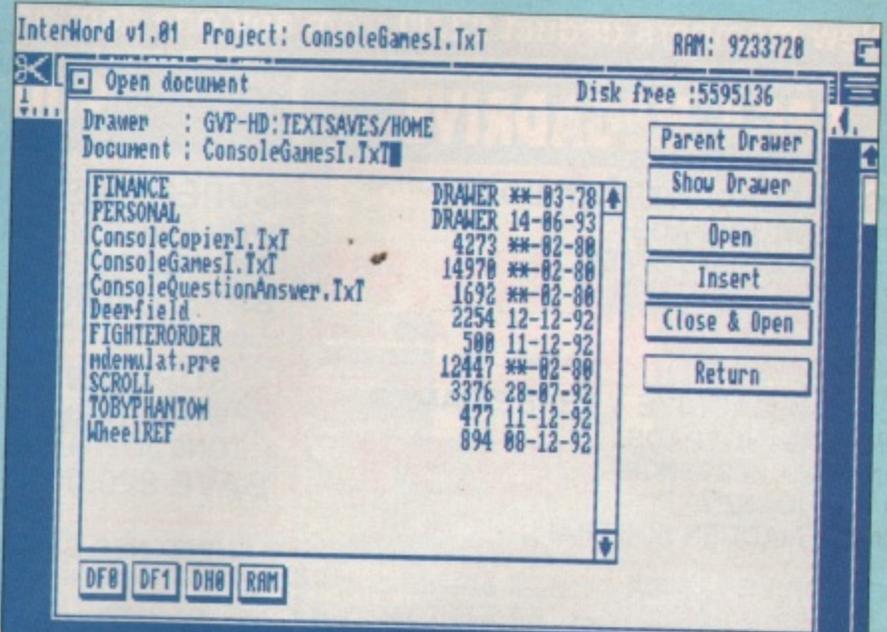
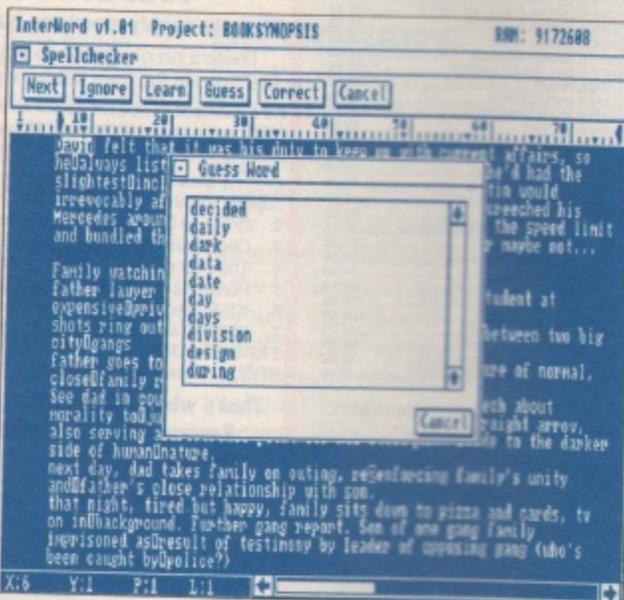
## SAVE OPTION

Of course, there's no point doing all this work if you can't save, and the way to do that is to select Save As from the Project menu. A file requester will open up where you can specify both the name to be given to your text file, and the place that it will be stored. At the bottom of the requester are a number of gadgets labelled DF0, DF1 RAM etc. These gadgets represent the devices where you can store files. If you only have a single drive the only options will be DF0 and RAM.

Click the button corresponding to the disk where you want to store your file. Do not save your text files on your program disk under any circumstances. If needs be, return to Workbench and for-

The icons at the top of the screen can be used to save time. Reading from left to right they are Cut, Copy, Paste, Print, Select Document and Disk Operations.

Printers are very well supported through the *Interword* drivers.



# NEW MEMBERS DISCOUNT - EXTRA £2.00 OFF

New members deduct £2.00 from any one item ordered as you join

## SEGA MEGADRIVE

### SEGA MEGADRIVE WITH SONIC

TWO SEGA JOYPADS

& £20 OFF A GAME OFFER

**129.99**

DEDUCT £20 OFF OUR PRICE OF ANY GAME PURCHASED AT THE SAME TIME AS THIS MEGADRIVE WITH SONIC PACK

£20 OFF ANY GAME

### SEGA MEGADRIVE + THREE GAMES

TWO SEGA JOYPADS

SONIC THE HEDGEHOG

EA ICE HOCKEY

& JOHN MADDEN FOOTBALL

**129.99**

STAR BUY

## SUPER NES

### SUPER NES + MARIO

WITH SUPER MARIO WORLD

ONE JOYPAD

SAVE £20.00

**109.99**

### SUPER NES + STARWING

WITH STARWING GAME

ONE JOYPAD

SAVE £20.00

**109.99**

### MEGADRIVE GAMES

888 ATTACK SUB	29.99	FIRE SHARK	16.99	SONIC 2	29.99
ALEX KIDD IN ENCHANTED CASTLE	16.99	FLASHBACK	35.99	SPEEDBALL 2	26.99
ALIEN 3	29.99	FLINTSTONES	30.99	SPIDERMAN	16.99
ALIEN STORM	16.99	GHOULS N GHOSTS	24.99	STEEL TALONS	29.99
ANOTHER WORLD	29.99	GLOBAL GLADIATORS	35.99	STREETS OF RAGE	28.49
ARIEL	28.49	GOLDEN AXE	16.99	STREETS OF RAGE 2	34.99
ART ALIVE	14.99	GRANDSLAM TENNIS	27.99	STRIDER	19.99
ATOMIC RUNNER	27.99	HACKBALL 3	29.99	STRIDER 2	35.99
B.O.B.	35.99	JACK NICKLAUS POWER	16.99	SUMMER CHALLENGE	29.99
BALL JACKS	27.49	CHALLENGE GOLF	29.99	SUNSET RIDERS	29.99
BATMAN RETURNS	29.99	JOHN MADDEN '93	29.99	SUPER HANG ON	16.99
BONANZA BROTHERS	16.99	JUNGLE STRIKE	35.99	SUPER KICK OFF	34.99
BUBSY BOBCAT	29.99	KING OF THE MONSTERS	29.99	SUPER OFF ROAD RACER	22.99
BULLS VS BLAZERS	29.99	LEMMINGS	29.99	SUPERMAN	35.99
CAPTAIN AMERICA	29.99	LHX ATTACK CHOPPER	29.99	SWORD OF VERMILION	31.99
CHAKAN	29.99	LOTUS TURBO CHALLENGE	29.99	TALESPIIN	28.49
CHUCK ROCK	29.99	MAGIN WARS	30.99	TECHNO CLASH	35.49
COLUMNS	24.99	MEGA-LO-MANIA	35.99	TECMO CUP SOCCER	30.99
COOL SPOT	34.99	MERCIS	16.99	TEENAGE MUTANT	34.99
CORPORATION	29.99	MICKEY AND DONALD	29.99	TERMINATOR	29.99
CYBERBALL	16.99	MICKEY MOUSE	29.99	TESTDRIVE 2	20.99
CYBORG JUSTICE	29.99	MICRO MACHINES	30.99	THUNDERFORCE 4	23.99
D. ROBINSON BASKETBALL	29.99	MOONWALKER	16.99	TINY TOONS	29.99
DARK CASTLE	24.99	MUHAMMAD ALI BOXING	29.99	TOE JAM AND EARL	29.99
DECAPATTACK	28.49	FOOTBALL	29.99	TOKI	16.99
DESERT STRIKE	29.99	NHL ICE HOCKEY	29.99	TRANCER BANKER	29.99
DICK TRACY	16.99	NHL ICE HOCKEY '93	29.99	TURBO OUTRUN	16.99
DONALD DUCK	29.99	OLYMPIC GOLD	29.99	TWO CRUDE DUDES	27.99
QUACKSHOT	29.99	PGA GOLF 2	29.99	UNIVERSAL SOLDIER	25.99
DOUBLE CLUTCH	27.99	POPULOUS	19.99	WARPSPEED	29.99
DRAGON'S FURY	29.99	POWERMONGER	29.99	WINTER GAMES	15.99
ECCO (DOLPHIN)	29.99	RAMBO 3	16.99	WONDERBOY IN	29.99
EUROPEAN CLUB FOOTBALL	29.99	REVENGE OF SHINOBI	16.99	MONSTER WORLD	29.99
EVANDELL HOLLYFIELD	29.99	ROAD RASH	29.99	WORLD CLASS	29.99
BOXING	29.99	ROAD RASH 2	29.99	LEADERBOARD	29.99
F22 INTERCEPTOR	29.99	ROBOCOD (JAMES BOND 2)	29.99	WORLD CUP ITALIA 90	16.99
FATAL FURY	35.99	ROLO TO THE RESCUE	29.99	WWF WRESTLEMANIA	29.99
FATAL LABYRINTH	16.99	SENNA SUPER MONACO	29.99	X-MEN	29.99
		SHADOW OF THE BEAST 2	29.99	ZERO WING	16.99
		SHINING FORCE	38.99		
		SIDE POCKET	27.99		

### MEGADRIVE EXTRAS

QUICKJOY SG PROPAD (WITH SLOW MOTION AND TWO SPEED AUTOFIRE) 12.99

TURBO 2 RAPID FIRE JOYPAD FOR MEGADRIVE (WITH AUTOFIRE & SLOW MOTION) 9.99

SAITEK MEGAMASTER 11 JOYSTICK WITH AUTOFIRE, SLOW MOTION AND 8 FOOT CABLE (MICROSWITCHED) 21.99

MONITOR LEAD FOR MEGADRIVE TO PHILLIPS CM8633 MK 2 MONITOR 7.99

SCART LEAD FOR MEGADRIVE - CONNECTS TO TELEVISION WITH SCART INPUT (GIVES MONITOR QUALITY PICTURE) 9.99

ACTION REPLAY PRO CARTRIDGE FOR MEGADRIVE (ALLOWS CHEAT CODES TO BE ENTERED TO GAME FOR INFINITE LIVES, CREDITS ETC.) 42.99

GAME GENIE FOR MEGADRIVE (GAMES ENHANCER, ALLOWS CHEAT CODES TO BE ENTERED FOR INFINITE LIVES, CREDITS, ETC. BOOK OF CODES INCLUDED) 38.99

### MEGA CD WITH 5 CD GAMES - SOLFACE, COBRA COMMAND, SEGA CLASSICS (GOLDEN AXE, SUPER MONACO GRAND PRIX, COLUMNS) (PLEASE PHONE FOR AVAILABILITY)

**249.99**

### MEGA CD GAMES

AFTERBURNER 3	31.99	BLACK HOLE ASSAULT	31.99
CHUCK ROCK	31.99	DRACULA	31.99
FINAL FIGHT	31.99	HOOK	31.99
JAGUAR XJ220	35.99	MUSIC VIDEO 1: MARKY MARK	31.99
MUSIC VIDEO 2: INXS	31.99	MUSIC VIDEO: C & C MUSIC FACTORY	31.99
MUSIC VIDEO: KRISS KROSS	31.99	NIGHT TRAP (2 CDS) RATED 15 YEARS OR OVER	38.99
PRINCE OF PERSIA	35.99	ROAD AVENGER	31.99
ROBO ALESTE	31.99	SEWER SHARK	42.99
SHERLOCK HOLMES	35.99	TIME GAL	31.99
WOLF CHILD	31.99	WONDER DOG	31.99

### SUPER NES GAMES

AADDAMS FAMILY	36.99	PITFIGHTER	45.49
SCAVENGER HUNT	35.99	POWERMONGER	42.99
AGURI SUZUKI F1 RACING	40.99	PRINCE OF PERSIA	40.99
ANOTHER WORLD	36.99	ROAD RUNNER (LOONEY TUNES)	40.99
AXELAY	36.99	SPIDERMAN AND X MAN	32.49
B.O.B.	35.99	STARWING	39.99
BART'S NIGHTMARE	39.99	STREETFIGHTER 2	49.99
BATMAN RETURNS	39.99	SUPER BATTLETANK	37.49
BATTLECLASH (SCOPE 6 GAME)	32.49	SUPER GHOULS AND GHOSTS	32.49
BEST OF BEST CHAMPIONSHIP KARATE	40.99	SUPER JAMES POND	31.99
BUBSY BOBCAT	36.99	SUPER MARIO KART	32.49
CHESSMASTER	40.49	SUPER MARIO WORLD	36.99
CYBEMATOR	39.99	SUPER OFF ROAD RACER	36.99
DESERT STRIKE	35.99	SUPER PANG	40.99
EXHAUST HEAT	39.99	SUPER PARODIUS	40.99
F-ZERO	32.49	SUPER PROTECTOR	36.99
JIMMY CONNORS' PRO TENNIS TOUR	37.49	SUPER R-TYPE	32.49
JOE & MAC - CAVEMAN NINJA	42.99	SUPER SMASH TV	36.99
JOHN MADDEN '93	35.99	SUPER SOCCER	32.49
KICK OFF	35.49	SUPER STAR WARS	40.99
KING ARTHUR'S WORLD	36.99	SUPER STRIKE EAGLE	41.99
KRUSTY'S FUN HOUSE	36.99	SUPER SWIV	38.99
LEMMINGS	31.45	SUPER TENNIS	32.49
LETHAL WEAPON	39.99	SUPER WWF WRESTLEMANIA	39.99
MAGIC SWORD	40.99	TESTDRIVE 2	20.99
MARIO PAINT WITH MOUSE	48.99	TINY TOON ADVENTURES	31.45
MICKEY'S MAGICAL QUEST	48.99	TRODDERS	34.49
NHLPA '93 ICE HOCKEY	35.99	ULTRAMAN	27.99
PEBBLE BEACH GOLF	40.99	UN SQUADRON	40.99
PGA TOUR GOLF	35.99	WARPSPEED	34.99
PILOT WINGS	32.49	WAR COMMANDER	40.99
		WORLD CLASS RUGBY	38.99
		WORLD LEAGUE BASKETBALL	32.49
		ZELDA 3 - LINK TO THE PAST	32.49

### SNES EXTRAS

QUICKJOY SN PROPAD FOR SUPER NES (WITH SLOW MOTION AND TWO SPEED AUTOFIRE) 12.99

SAITEK MEGAMASTER 11 JOYSTICK FOR SUPER NES WITH AUTOFIRE, SLOW MOTION & 8 FOOT CABLE 21.99

PACK OF THREE SUPER NES PLASTIC PROTECTOR CASES FOR CARTRIDGES. PROTECTS CARTRIDGES FROM MOISTURE AND DUST (COLOURS MAY VARY) 5.99

GAME GENIE FOR SUPER NINTENDO (GAMES ENHANCER, ALLOWS CHEAT CODES TO BE ENTERED FOR INFINITE LIVES, CREDITS ETC. BOOK OF CODES INCLUDED) 37.99

SCART LEAD FOR SUPER NES TO TV WITH SCART INPUT (GIVES MONITOR QUALITY PICTURE) 9.99

NINTENDO STEREO AUDIO/VISUAL LEAD FOR SUPER NES (INCLUDES SCART/EURO RED/YELLOW/WHITE PHONO STEREO & VIDEO LEAD) 9.99

## GAMEBOY

### GAMEBOY + TETRIS

WITH TETRIS GAME

TWO PLAYER LEAD

STEREO HEADPHONES, BATTERIES

**49.99**

### GAMEBOY

WITH NO EXTRAS

**39.99**

### GAMEBOY GAMES

ALIEN 3	23.99	GARGOYLES QUEST	12.99	R-TYPE	21.99
ALLEYWAY	12.99	GEORGE	19.99	RADAR MISSION	19.99
ASTEROIDS	14.99	FOREMAN'S BOXING	23.99	ROBIN HOOD	20.99
BALLOON KID	19.99	GOLF	17.99	RODLAND	22.99
BART VS JUGGERNAUTS	23.99	JACK NICKLAUS	20.99	SIDE POCKET	19.99
BATTLE OF OLYMPUS	22.99	GOLF	20.99	SOLAR STRIKER	12.99
BATTLETOADS	20.99	JIMMY CONNORS PRO	20.99	SPEEDBALL 2	23.99
BEST OF BEST	20.99	TENNIS TOUR	20.99	SPIDERMAN 2	23.99
BILL AND TED'S EXCELLENT ADVENTURE	15.99	KICK OFF	21.99	STAR HAWK	15.99
BLUES BROTHERS	20.99	KID DRACULA	21.99	STAR TREK	24.99
BOULDER DASH	21.49	KID ICARUS	19.99	STAR WARS	21.99
BURAI FIGHTER DELUXE	12.99	KIRBY'S DREAM LAND	19.99	SUPER HUNCHBACK	22.99
CASTLEVANIA	13.99	KRUSTY'S FUN HOUSE	36.99	SUPER MARIO LAND	19.99
CASTLEVANIA 2	24.99	KUNG FU MASTER	10.99	SUPER MARIO LAND 2	24.99
CENTIPED	15.99	LEMMINGS	21.99	SUPER OFF	23.99
CHESSMASTER	19.99	MARBLE MADNESS	20.99	ROAD RACER	23.99
DOUBLE DRAGON 3	23.99	MARIO AND YOSHI	19.99	SUPER RC PRO-AM	21.49
DR. MARIO	19.99	MCDONALD LAND	23.99	TENNIS	18.99
DUCK TALES	10.99	MERCENARY FORCE	21.49	TERMINATOR 2	15.99
DYNA BLASTER	22.99	MICKY MOUSE	20.99	TINY TOON ADVENTURES	20.99
EMPIRE STRIKES BACK	20.99	MOTOR CROSS MANIACS	13.99	TIP OFF (BASKETBALL)	22.99
F15 STRIKE EAGLE	22.99	NEMESIS 2	21.99	TRACK AND FIELD	23.99
FORMULA 1 RACE (WITH FOUR PLAYER ADAPTOR)	24.99	NINTENDO WORLD CUP	19.99	TURRICAN	19.99
		OTHELLO	12.99	ULTIMA RUNES	21.99
		PARASOL STARS	22.99	UNIVERSAL SOLDIER	19.99
		PARODIUS	24.99	WIZARDS & WARRIORS	19.99
		POPULOUS	22.99	WWF SUPERSTARS	20.99
		PRINCE OF PERSIA	20.99	WWF SUPERSTARS 2	23.99
		PRINCESS BLOBETTE	12.99	ZEN - INTERGALACTIC NINJA	21.99
		PROTECTOR	20.99		
		QIX	10.99		

CALL NOW FOR OUR FREE 12 PAGE CATALOGUE

**0279 600204**

## GAME GEAR

### SEGA GAME GEAR +

DOUBLE GAME

FREE MAINS ADAPTOR

**79.99**

### GG GAMES

ALIEN 3	22.99	LEADER BOARD	19.99	STREETS OF RAGE	19.99
ALIEN SYNDROME	19.99	LEMMINGS	22.99	STREETS OF RAGE 2	24.99
BATMAN RETURNS	22.99	MASTER OF DARKNESS	19.99	STRIDER 2	24.99
BATTLETOADS	20.99	MICKEY MOUSE	19.99	SUPER KICK OFF	24.99
CHAKAN	24.99	MICKEY MOUSE 2	24.99	SUPER MONACO GP	19.99
CHESS MASTER	13.99	NINJA GAIDEN	16.99	SUPER OFF	22.99
CHUCK ROCK	19.99	OLYMPIC GOLD	22.99	SUPER RACER	22.99
COLUMNS	13.99	OUTRUN EUROPA	22.99	SUPER SPACE	22.99
CRYSTAL WARRIORS	16.99	PRINCE OF PERSIA	22.99	INVADERS	22.99
DEVELISH	13.99	PSYCHIC WORLD	13.99	SUPERMAN	24.99
DONALD DUCK	24.99	ROBOCOD	24.99	TALESPIIN	20.99
DOUBLE DRAGON	24.99	SHINOBI	19.99	TAZMANIA	22.99
GALAGA 2	24.99	SHINOBI 2	22.99	TENGEN WORLD CUP	22.99
GLOBAL GLADIATORS	24.99	SIMPSONS	22.99	SOCCER	24.99
INDIANA JONES 3	22.99	SLIDER	13.99	TERMINATOR	22.99
JOE MONTANA (U.S.) FOOTBALL	19.99	SOLITAIRE POKER	13.99	TOM AND JERRY	19.99
		SONIC 2	22.99	WIMBLEDON TENNIS	22.99
		SONIC THE HEDGEHOG	24.99	WONDERBOY	22.99
		SPIDERMAN	22.99	DRAGONS TRAP	24.99

We only supply official UK products. Official suppliers of all leading brands. We sell games and peripherals all at amazing prices for Megadrive, Master System, Game Gear, Super NES, Gameboy, NES, Lynx, Amiga, Atari ST, PC, CD ROM and Apple Mac. And we sell T-shirts and cuddly toys! Special Reserve Club Shop at The Maltings, Sawbridgeworth, Herts. Open to 7pm Weekdays and to 5pm Saturdays.



Special Reserve members can have all this... can YOU?

READ "NRG" Regular Club Magazine

CHOOSE from our Huge Selection

BUY at Best Possible Prices

SAVE with our Special Deals

SAVE more with our XS Coupons

WIN £60,000 worth of prizes FREE

JOIN now from just £4.99

We only supply members but you can order as you join

There's no obligation to buy and you can be any age. Just send in the form below or phone Sales on 0279 600204.

As a member of Special Reserve you'll receive regular issues of NRG magazine. NRG is our 48 page colour club magazine sent bi-monthly only to Special Reserve members. NRG contains:

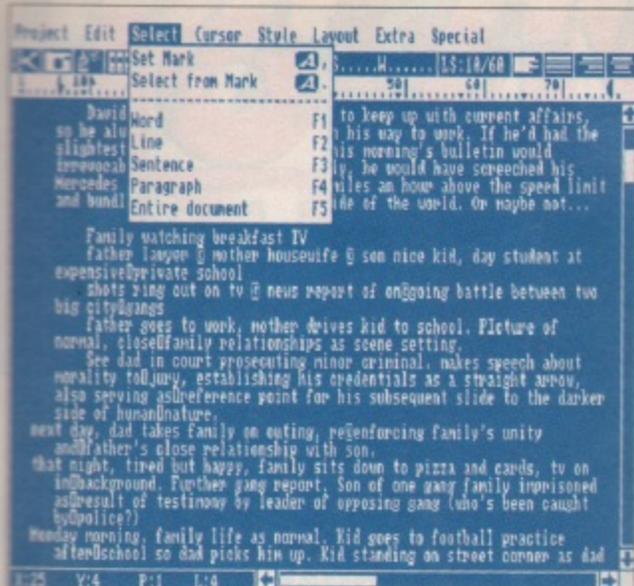
1. The best selection of games, peripherals and hardware for all popular formats. We are official Sega, Nintendo and Sony stockists.
2. Reviews in colour and latest information on new products
3. Charts and Release Schedule, to help you choose and plan
4. The best prices. Just one purchase will save you your joining fee
5. Hundreds of Special Offers. Top games at prices you won't believe
6. XS Super Savers. Money-off coupons worth over £180 a year
7. £60,000 worth of prizes per year in our FREE-to-enter BIG TARGET COMPETITIONS. That's £10,000 worth in every issue of NRG, exclusive to members.

That's why over 160,000 people have joined Special Reserve, the biggest games club in the World!

**0279 600204**

9am to 8pm Weekdays, 9am to 5pm Saturday, 10am to 5pm Sunday 10am to 5pm Bank Holidays. Order/Confirmation/Receipt sent for every order. THERE IS A SURCHARGE OF 50p PER GAME ON TELEPHONED ORDERS. You can also Fax your order to us on: 0279 726842

We pride ourselves on our after-sales service. (18 customer service lines) Inevitably some games listed may not yet be available. Please phone sales on 0279 600204 to check availability before ordering. In the



Function keys make text selection easier.

Format a blank disk to save your text files onto.

Once you've clicked the button corresponding to your chosen drive, the contents of any disks in that drive will be shown in the main directory window (above the device buttons). If you want to store your file inside a drawer on the disk, click the name of the drawer in the directory window and the contents of the drawer will appear in the window.

When you've reached the appropriate place, click in the text gadget labelled Document at the top of the window. A text cursor should appear. Unless you want to store your document using the name that already appears in this gadget, use the delete and backspace keys to erase any text. Then type in the name that you want to save your file under.

When you've given your file a name, look at the buttons at the right of the save requestor. You'll notice that one of them is labelled Save. Click this button and your document will be stored to disk in *InterWord's* own proprietary format. Alternatively, click the button labelled Save ASCII and your document will be stored in ASCII format so that it can be loaded into any other text editor or word processor. The only restriction is that an ASCII save does not save text formatting or styling information. The final save option is Save Locked. Again this stores your document on

disk in *InterWord's* own special format. However, before the file is saved you will be asked for a password which will be encrypted into the save file. This password will then be required before the file can be reloaded.

To reload a file, select Open document then follow the same procedure as you to save one.

You can either type in the file name if you remember it, or

you can click on the name in the directory window below.

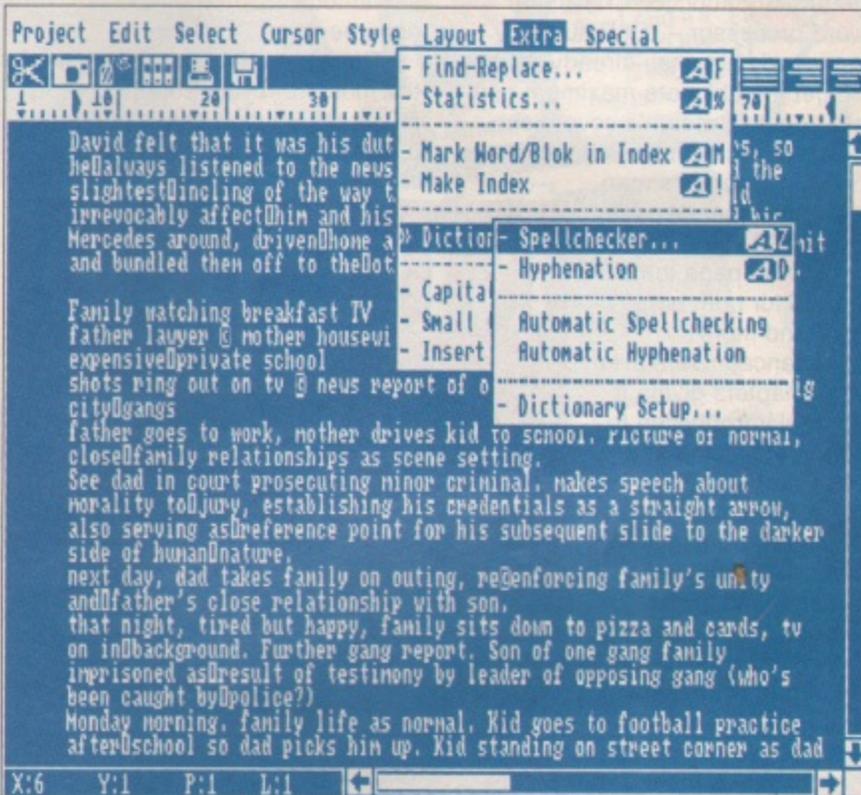
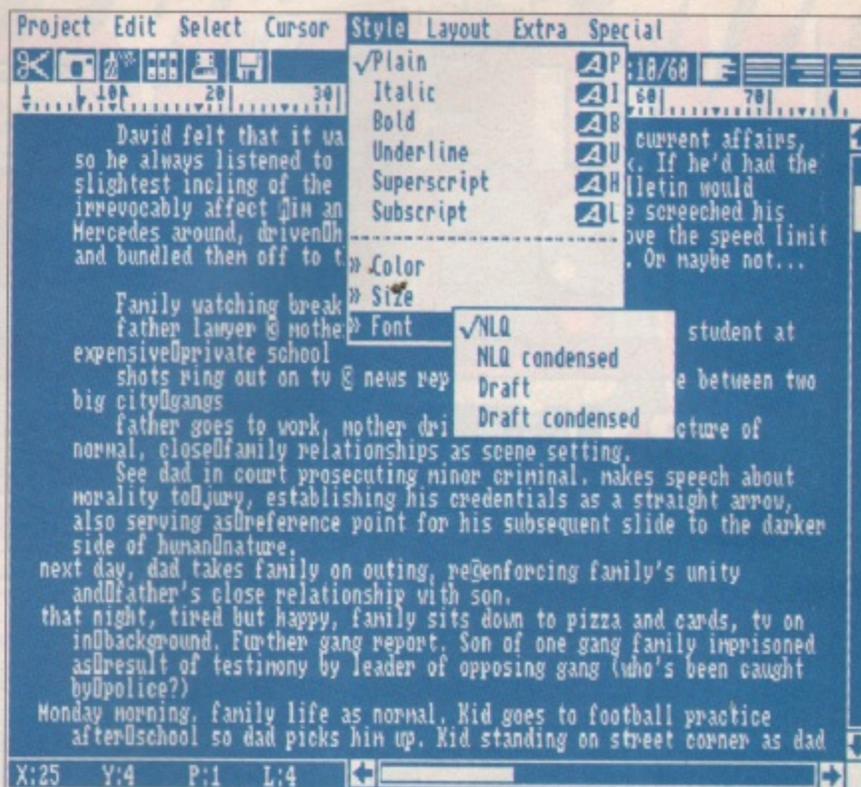
## DICTIONARY

*InterWord* includes a comprehensive dictionary. To check your spelling as you type, select Dictionary/Automatic Spellchecking from the Extras menu. From now on, if you make a spelling error, the screen will flash or a beep will sound according to your settings in the Preferences menu. It's then up to you to use the spelling checker to find alternative spellings.

When you select Spellchecker from the Dictionary menu *InterWord* automatically begins checking your document using the dictionary settings specified in the Dictionary Setup option.

If it encounters a word that it doesn't recognise, it stops and highlights the word for you to choose one of the options in the Spellchecker requestor. The most useful of these is Guess, which tells *InterWord* to try to guess the correct spelling. It will search its dictionaries to find any words that begin with the same letters and all matches will be displayed in a list. Assuming the correctly spelled word appears in this list, simply click on it, and it will replace the misspelt one.

If the Spell checker queries a correctly spelled word (somebody's name for instance), click Learn and the program will add the word to its own dictionary for future reference.



*Interword* has a truly gargantuan dictionary. If it can't find your word, then you've probably either misspelt it or made it up. The dictionaries are contained on five disks, so you may want to have a look at the setup options to avoid too much disk swapping.

## PRINTING

When you want to print your *InterWord* document, select Print from the Project menu (or click the Printer icon at the top of the screen) and the print requestor will appear. Although this requestor is similar to the Workbench Printer requestor, there are a few important differences.

At the top of the requestor, you'll see the name of the printer driver that will be used. This will be the preferences driver that is set up on your Workbench disk. If you don't know how to alter the Workbench printer preferences, it's worthwhile taking the time to read the relevant chapter in your Workbench manual.

Below the printer driver name is a cycle gadget that lets you determine the type of fonts that your document will use. By clicking on the gadget repeatedly, you can select from a number of choices. For now, there are only two choices to worry about, NLQ and Draft. If you select NLQ your document will be printed using your printer's best quality typeface. Select draft and the document will be printed in a draft typeface which is poorer in quality, but much faster to print.

Unlike most word processors, *InterWord* allows you to apply draft and NLQ styles to your text AT ANY POINT, even in the middle of a line. If you highlight a block of text and go to the Font option in the Style menu, you'll see the NLQ and draft listed. Simply select the one that you want, and it will be applied to the highlighted text.

This facility explains the third option in the Print/Font cycle gadget which is 'Document's selected fonts'. If this option is selected, all font quality changes in your document will be acted upon, whereas the NLQ and Draft options simply apply the chosen style to all text in your document.

Below the Font gadget you can specify how many and which pages are to be printed. If you only want to print a specific range of pages from a multi-page document, you can enter the first and last page numbers in the From and To gadgets. However, if you are printing pages which will be bound in a folder or book for example, you can choose to print only the left or right facing pages. This allows you to print a document on both sides of a piece of paper, starting first with the pages on one side, then the other. Again, you can make your choice using the cycle gadget. It contains three options: All, Even and Odd, and whichever option is visible is the one that will be used.

The last few options in the Print requestor are self-explanatory. Number of Copies indicates how many times the selected pages are to be printed. Perform Linefeed tells the printer to move the print head down a line, whilst Perform Form Feed tells the printer to move the print head to the start of a new page. Needless to say, Print tells *InterWord* to commence printing. Once Printing has begun, Cancel tells *InterWord* to stop printing and send a stop command to your printer. If your printer has a memory buffer, the stop command will only be executed once the contents of the buffer have been printed.

# INTERACTIVISION SPECIAL OFFERS

## OFFER ONE INTERWORD MANUAL

ONLY £7.99

Now that you've got to grips with *InterWord* on this month's coverdisk, you've doubtless discovered what a top-notch program it is. Of course we could go on for page after page and still not cover every feature and function of this fine word processor – but fortunately somebody else has already done it. To get the absolute maximum benefit from this month's coverdisk giveaway, why not purchase the original program's manual at the special price of only £7.99?

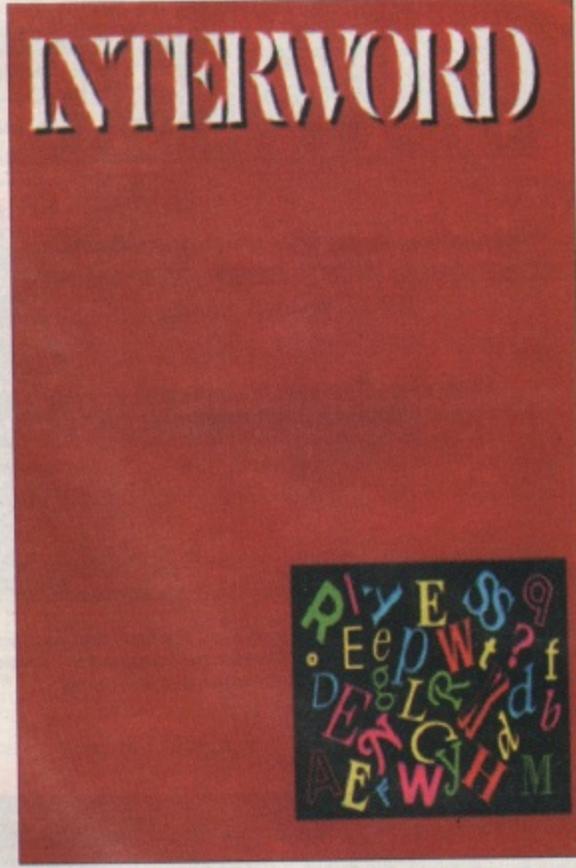
The 54-page tome is written for both beginners and more experienced users alike, with chapters giving a general introduction to word processing and ones that cover the more advanced features of the program including line-spacing, palette options, and preferences. You will find that *InterWord* is easily configured to work the way you want it to, and this manual will show you how to set up the software for your particular needs.

The manual gives full details on how to use your printer with *InterWord* and even goes as far as letting you define new printer drivers using only your

printer manual for reference.

The manual also explains hard disk installation and gives a full breakdown of *InterWord's* comprehensive menu system. It really is an invaluable aid to producing professional-looking letters and documents.

There's no time to waste – to get the most from your super coverdisk, fill out the coupon below and return it without delay!



## OFFER TWO INTEROFFICE ONLY £29.99

(OR £19.99 FOR INDIVIDUAL PROGRAMS)

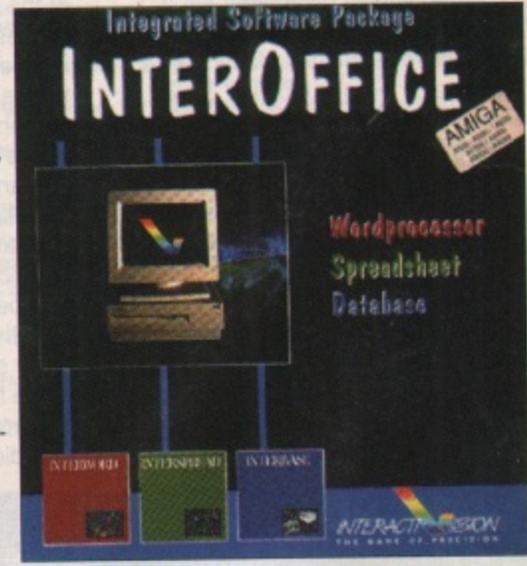
InterOffice is a completely integrated software package – it comprises three programs, all of which are geared to squeezing the last drop of power out of your Amiga (and your software budget). We've put together an amazing deal for CU Amiga readers so that you can either buy the complete package at a rock bottom price, or individually purchase programs at a substantial discount.

InterOffice comes equipped with:

- **INTERBASE**  
Whether you want a catalogue of your CD collection or an indexed list of all English speaking contacts on Osaka, the answer has to be *InterBase*. When CU AMIGA reviewed this versatile database a couple of years ago, we said at the time that 'it's a high quality database system and it seems that flexibility and reliability have been given the highest priority'. A full screen interface allows flexible construction of layouts to make this package not only extremely powerful, but also easy to use. All the search and filter functions you would expect from a professional package are present in this multitasking relational database.
- **INTERSPREAD**  
If you need help in reconstructing a vast financial empire or just want to budget your pocket money, *InterSpread* is probably the package for you.

Why bother working out how much you owe the loan-sharks with a pencil and paper when over 60 mathematical functions are at your command in a truly gargantuan program which can handle worksheets up to 3000 by 10,000 cells. To ease repetitive tasks there is an extensive macro utility and your results can be displayed on screen in virtually any graph format you could imagine. With *InterSpread* you need never fear your bank manager again.

- **INTERWORD**  
We're not suggesting that you cough up the ready for this one, as we've just given it away free on this month's coverdisk, but you will get the manual thrown in for free if you opt to buy the complete InterOffice program. Are we good to you or what?!



Please post to: Interactivision Offers, Kompart UK, Guildford House, 20 Guildford Road, St. Albans, Herts AL1 5JY

PLEASE SEND ME:

INTERWORD MANUAL @ £7.99       INTEROFFICE @ £29.99

INTERSPREAD @ £19.99       INTERBASE @ £19.99

I enclose a cheque for £ \_\_\_\_\_, made payable to Kompart UK. Please add £1.50 for postage and packing.

ACCESS/VISA card no.: ..... EXPIRY DATE: .....

Name on credit card: .....

Please supply credit card holder's address if different from the address above.

Signature: .....

NAME: .....

ADDRESS: .....

..... POST CODE: .....

COMPUTER AND VIDEO GAMES **CVG** COMPUTER AND VIDEO GAMES **CVG** COMPUTER AND VIDEO GAMES **CVG** COMPUTER AND VIDEO GAMES **CVG**

# GREAT GUY

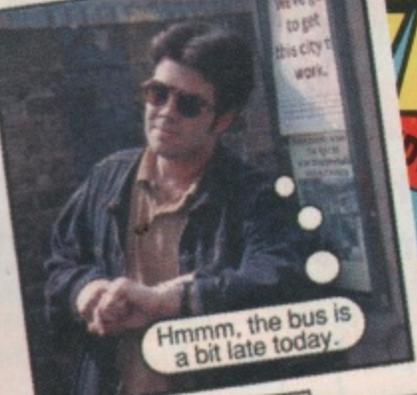
JUST ANOTHER DAY...



Gosh, thank heavens for CVG, making me look great and enabling me to have a brilliant life! More drinks, girls?

You're so dreamy Great Guy. And it's all thanks to CVG!

ON THE WAY HOME...



Hmmm, the bus is a bit late today.

THE NEXT DAY, AT NUMBER 10...



That's right, Mr Prime Minister

Well done, Mr Guy! And it's all due to this CVG magazine, I believe.

GREAT GUY LEAPS INTO ACTION...

BUT THEN...



INFIDEL! We are the Shining Brothers of Dawn, and we are going to hijack the bus and take it to, erm, somewhere completely naïf!



OH NO YOU'RE NOT!

CVG! AAIEEE!

Yes, indeed we are.

BACK IN LONDON...



AMAZING! How do you do it, Great Guy?

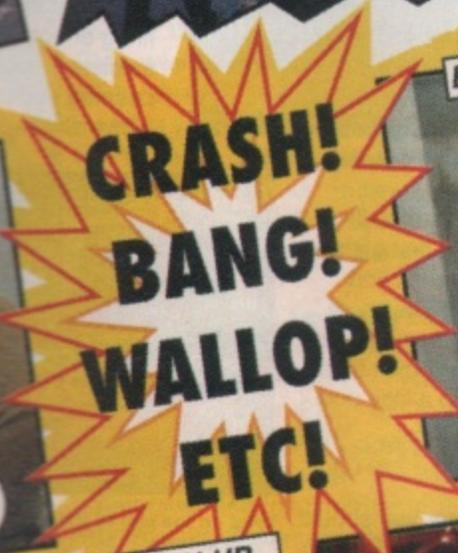
Your problems are over, Mr Spy! The insurgents have been wiped out! Oh yes - and I've eliminated world hunger and poverty as well.

AND SO, AT MI5's SECRET SPY HQ...



Mr Guy, yet more crackpot terrorists are attempting to detsroy everything we stand for! As a reader of CVG only you can stop them!

Leave it to me, Mr Spy - I won't let you down!



CRASH!  
BANG!  
WALLOP!  
ETC!

LATER, IN THE YOUTH CLUB...



It's all thanks to CVG!



Excuse me, do you come here often?

Bog off, urchin!



GUMPH!

Have you noticed I read CVG?

Oh, that's different, then. Can I have a wet snog?

AND SO ON...

AND THE MORAL IS...  
HERE AT CVG WE KNOW THAT GAMES PLAYERS LEAD RICH AND REWARDING LIVES. WE THINK YOU'RE GREAT, SO PLEASE BUY CVG. BY THE WAY, DID WE MENTION THAT WE THINK YOU'RE ALL GREAT?

# ON SALE

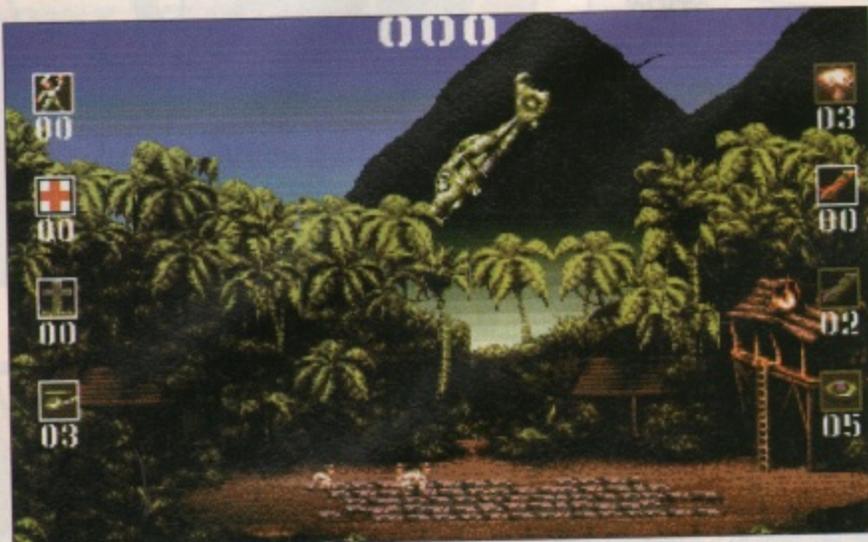
15th OF EVERY MONTH



# COVERDISK 63

This month we give you a completely playable level of Virgin's up and coming *Choplifter*-style shoot 'em up *Apocalypse*.

## APOCALYPSE



Those little guys in the white coats are the POWs. At least they keep them clean!

**A** *Apocalypse* is very similar to an old arcade favourite of ours by the name of *Choplifter*. In that game, you flew a rescue helicopter across a variety of scenarios, from collecting POWs to rescuing people from burning ships. In our demo of *Apocalypse*, you begin your duty on a launch pad somewhere in the middle of a dense forest. Somewhere out there are POWs, and by golly you're the person to go and get them!

The entire game zone lies to the left of the base, so take off by pushing up, and then move the joystick to the left to fly in that direction. If you find you are flying backwards, use the fire button in conjunction with the

direction you want to fly to turn around. At first glance, you probably won't find much. That's because all the huts and enemy are to be found lower down in the jungle, so drop a little and keep searching.

### HUTS

Before too long, you should come across a flat platform with a couple of huts on it.

The huts are where all the people in the game are hiding, be they POWs or enemy soldiers. To let them out, shoot the huts with your cannon (hold down the fire button to release a stream of bullets) until the hut

explodes. Then a few people will scamper out of the burning buildings. If they are dressed in white, then they are POWs and are just waiting to be collected. To get them, gently lower the copter to the ground and your side door will open automatically. The men in white will rush towards you and climb aboard. It is vitally important that you don't open fire at this point.

If, on the other hand, the soldiers that emerge are dressed in green, then treat them as a threat whether firing or not. These are the enemy soldiers – scourge of the world, and deserve nothing more than to be blown sky high by a well-aimed vol-



Land on the pad to the right of your own to collect a medical team.

ley of bullets. Fly past them a couple of times with guns firing and laugh hysterically as they scream and bounce into the air!

### CHOICES

Once you have some POWs aboard, you can do one of two things. You can continue through the battlefield to collect some more, or you can head back to base to drop off those already in the back. To drop them off, turn to the right and fly back to base, and land on the launch pad. The side door will open again and the thankful cargo will dash to safety. Now you can fly back out to the danger zone and do a little more rescuing.

Occasionally, POWs will get injured by a stray bullet or attacks from the enemy. If you like, you can leave them to die, but I'd be surprised if you could sleep with yourself afterwards. The correct proce-

### THE FOUR WEAPONS

Along with the standard cannons, there are four special weapons for you to fight with, fired by quickly double-clicking on the joystick button. These are shown by the four icons down the right side of the screen. To select a weapon, press the space bar to pause the game, then use the joystick to highlight the one you want. And here they are, in all their glory!

An extremely high-powered projectile weapon that'll eat through anything! Needs to be aimed by pointing at your target and then firing.

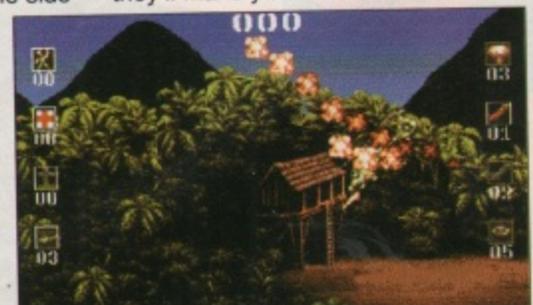
Not as powerful as the nuclear rocket, but at least you can fire and forget this one, and it'll track enemy aircraft to their doom.

Harder and faster than bullets, this needs to be aimed in the same way as the Nuclear Rocket. Best suited to ground targets.

These drop from the underside of your chopper and lie innocently on the ground until someone walks onto them, at which point it's sushi time!



The enemy helicopter causing death and devastation throughout the camps and particularly towards you!



Launching nuclear homing missiles are the only easy way to down enemy pilots.

The BBC Radio 1's  
TV and Radio presenter



# INDI DIRECT MAIL

Proudly Presents  
THE  
JAKKI BRAMBLES COLUMN



## DMA ENSURES HIGHEST PRACTICE

As with most industries, the UK's personal computer industry has its share of cowboys operating in the mail order sector and at the receiving end a line up of despairing consumers who have suffered at their hands.

A personal computer is a sophisticated and expensive item and provided the purchaser is dealing with a reputable and accredited supplier, buying a computer by mail order can be a perfectly safe and cost effective exercise. The Direct Marketing Association (DMA) was set up in April 92 to set and maintain high standards for the sake of the industry and society at large, and to ensure that we can continue to regulate our own activities on the basis of proper professional responsibility. Membership of the DMA is not conferred lightly - it is a privilege which entails responsibilities, to the consumer as well as to the industry. The foundation for this must be good practice. DMA members are required to abide by the highest standards as laid down in the DMA's code, enforced on members by The Authority of the DMA a separate body with an independent Chairman, and which is an assurance of vigorous self-regulation and professional responsibility.

DMA members also agree, as a condition of membership, to abide by The British Code of Advertising Practice and The British Code of Sales Promotion Practice: to apply the Mailing Preference Service file when appropriate: and to subscribe to the Advertising Standards Board of Finance (ASBOF) and to the Mailing Standards Levy as applicable.

The DMA symbol can only be used by members. Printed on stationary, advertising and other promotional material it demonstrates that these companies conform to the Association's high standards and are subject to the DMA's Code of Practice, thus enhancing the companies credibility with customers, suppliers and of greatest importance, the consumer.

Since the symbol was introduced last June, it has become synonymous with quality, professionalism and responsibility. While it cannot be shown in any way which will become a sign of best industry practice and of strict adherence to DMA codes of conduct. The symbol represents authority for members and reassurance for consumers. It has been a high valued mark of confidence signifying to the consumer the truly professional edge of the industry.

Alison Slan  
(Director of Public Relations, DMA)

Hi,

Commodore's decision to reduce the price of the Amiga 600 took everyone by surprise and really positions the A600 as the perfect entry level computer.

Of course the problem with new technology is that something has to be left behind and in Commodore's case it's the poor old 500.

Now Indi tell me that Commodore are taking back all old A500's when you buy a new state of the art Amiga 1200. So dust off that old A500 make sure that it is in full working order and you still have the mouse, modulator, manuals and power pack. Give Indi a call on **0543 419999** and ask for "Amiga 500 Trade in Desk", Indi will send Securicor to your home and pick up your A500 at their cost and then deliver a superb new Amiga 1200 with **£100 off** the advertised price. Remember this is a limited offer. What's a PCMCIA slot I ask? Indi explained to me that its Commodore way of ensuring that both the Amiga 600 and 1200 can remain future proof. Credit card style memory cards are already available from Indi but that's just the beginning, faxes, modems and network cards are on their way and who knows what else. If you need to know more about PCMCIA why not drop me a line.

On the subject of letters I have been swamped. It's absolutely great and I promise each one will be responded to and get a signed photograph so keep them coming! Last month's winning letter came from **Adrian Simpson of County Down** Northern Ireland who gave a very well informed comparison between Amiga and less useful consoles.

I was absolutely knocked out with all the details he sent me concerning the music capabilities of the Amiga. Adrian's letter was far too detailed to reprint but a big thank you to him for writing it. Adrian the prize is on its way.

## WHAT DOES THIS SYMBOL MEAN



Finally I received a few important letters asking what is the DMA and why is it important to consumers that Indi is part of it. On this page you will find a letter from the Chairman of the DMA, it's well worth a read.

## NEW MEGA A1200!

Due to the shortage of A4000 / 030 INDI are now offering a mega A1200 configuration. Just look at this spec A1200 \* 4 MEG RAM \* 80 Meg HD \* M1230 XA 50 Meg HZ. Runs @ 1.5 times faster than a standard A4000 / 030. Now look at the price **£939.99** (save £100 with A500 trade in) Credit terms available.

PHONE 0543 419999 FOR DETAILS

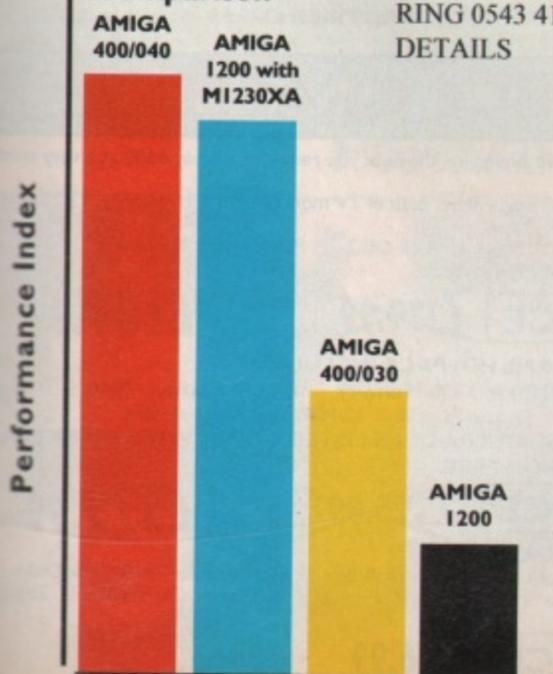
## INDI LAUNCH NEW MULTI MEDIA CLUB

Indi have just launched "The Indi Multi media Club". Members will be offered a complete range of Amiga Software covering Professional, Games, Utilities, CDTV, and CD Audio and video and selected PD.

Membership costs £10 per annum with a free offer on joining. Members will then receive a monthly catalogue giving incredible discounts on all products listed.

RING 0543 419999 FOR MORE DETAILS

## Performance Comparison





**DEFERRED CREDIT ON ALL ORDERS OVER £200.**  
**\*PAY 10% NOW AND NOTHING MORE FOR 3 MONTHS\***

## AMIGA A1200

ALL NEW  
32-BIT  
AMIGA



### COMIC RELIEF PACK

The event may be over but the fund raising still goes on. If you're looking for the latest Amiga technology then this is the starter pack for you. Based around the outstanding A1200, this pack also gives you sleepwalker, a most addictive platform game from our software. You'll be pleased to know that every one of these packs purchased raises another £10 for Comic Relief.

### A1200 STANDARD FEATURES.

- \* 68020 Processor \* PCMCIA Slot \* 2MB Chip RAM \* 3.5" Internal Drive \* AA Chipset \* Built in TV modulator \* Alpha numeric keypad.
- \* 12 Months at home maintenance.

### INDI PRICE

**£379.99** or from **£14.47\*** per month

\*(Credit price based on 36 monthly payments APR 29.8%. Total repayment £520.92 and 90 day deferred payments.)

**A1200 60 MEG HD INDI PRICE £569.99**

**A1200 80 MEG HD INDI PRICE £599.99**

**A1200 120 MEG HD INDI PRICE £679.99**

### INDI A1200 ACCESSORY PACKS

#### Pack Contains:

- \* International Games Challenge \* The Cool Croc.
- \* Paradroid 90 \* Zapsac and Zappo T - shirt.

**INDI PRICE £19.99**

60 / 80 Hard Disk upgrades available on any A1200. Upgrade includes full Wang warranty on A1200 and Hard Disks. Phone for a quote.

## CUSTOMER CHARTER

INDI Direct Mail is original and very exciting. Before you buy mail order you must first be confident that you will receive the product you've ordered and that the supplier will be still be there in the future, should you need them.

A mail order purchase from INDI is a safe and secure decision, and here's why.

INDI is a wholly owned subsidiary of a public company now in its tenth year of trading and specialising in the supply of computer products.

With a turnover approaching £30 million per annum, we have the resources and the purchasing power to offer you the best deals, deliver them next day nationwide and always be around when you need us.

## SALES AND SUPPORT

The INDI sales team have been trained to take your order with the utmost care and efficiency. All stock offered for sale is held in stock, centrally at our group ware house complex and is available for next day delivery, direct to your home or business. If at any time we are out of stock your money will not be banked until the product is available (a point worth checking should you be tempted to purchase elsewhere)

General information regarding product is available from our sales team, however technical support is always on hand should you need assistance.

All prices quoted are inclusive of VAT.

## INDI TELESales

TEL 0543 419999 FAX 0543 418079

## CREDIT FACILITIES

INDI are now able to offer competitive credit facilities on all orders over £200. All credit facilities are subject to status and applicants must be over the age of 18.

If you would like a quote simply call our sales line where acceptance can normally be notified within the hour. We are also able to offer Credit Insurance to cover repayments in the event of sickness or unemployment.

AMOUNT OF CREDIT	12 MONTHS		24 MONTHS		36 MONTHS	
	MONTHLY PYMNTS	TOTAL PAYABLE	MONTHLY PYMNTS	TOTAL PAYABLE	MONTHLY PYMNTS	TOTAL PAYABLE
200	£22.00	£264.00	£12.00	£298.32	£9.31	£335.63
500	£54.99	£659.88	£31.06	£745.44	£23.27	£837.72
1000	£109.98	£1319.76	£62.13	£1491.12	£46.54	£1675.44

APR 29.9% WRITTEN QUOTATIONS AVAILABLE ON REQUEST  
 \*After deposit paid

## AFTER SALES AND SPECIALIST SERVICE

All products are guaranteed for 12 months. Some products carry a 12 months at home service and repair guarantee (where indicated). In the unlikely event that any product purchased from INDI arrives at your home faulty, we will collect from your home and replace the product completely free of charge.

As part of our policy of continual product development and refinement, we reserve the right to change specifications of products advertised. Please confirm current specifications at the time of ordering.

Prices are valid for month of publication only.

### OFFICIAL A1200 HD SYSTEMS

The Amiga 1200 supplied by Indi Direct Mail now includes the official (legal) Commodore installation disk and hard drive utility manual. Indi are proud to be an official supplier of Amiga 1200 Hard Drive systems, that include the official software, documentation and on - site warranty.

### A500 TRADE IN!!

£100 for your old Amiga 500 against any A1200 from Indi Direct. Must be in full working order, complete with mouse, manuals and P.S.U

60 / 80 Hard Disk upgrades available on any A1200. Upgrade includes full Wang warranty on A1200 and Hard Disks. Phone for a quote.

## AMIGA A4000

### NEW MONITOR RANGE

THE NEW DUAL SYNC 1942 Monitors have been specially designed for the New Amiga 1200 and 4000 computers. Both monitors feature built - in stereo speakers.



### It's here - The new Amiga 4000/030

The NEW Amiga 4000/030 features a EC68030 processor running at an incredible 25Mhz, and upgradable at a later date to a faster processor. The 4000/030 has a powerful 4 Mb of 32 - bit RAM (2Mb chip & 2 Mb fast) expandable to 18 Mb using industry standard 32 - bit Simms module. In line with the Amiga Flagship 4000/040 the 4000/030 features the new AGA graphics chipset, giving you a massive pallet of 16.8 million colours. A range of hard drive options are available from 80 - 240 Mb and includes a SCSI option.

**4000/030 80 Mb HD INDI PRICE £939.99**

Other Drive Options

**4000/030 120 Mb HD INDI PRICE £1039.99**

**4000/030 240 Mb HD (exclusive to INDI)**

Phone for price.

**4000/030 120 Mb SCSI HD (exclusive to INDI)**

Phone for price

A full range of approved upgrades are available for the 4000/030, including additional memory modules, hard drives, PC bridge boards, FPU's (68881 & 68882) and the 24 - bit Opal Vision graphics and video system

### INDI PRICE

**1940 Monitor £279.99**

14 inch screen size - 0.39 mm dot matrix

### INDI PRICE

**1942 Monitor £379.99**

14 inch screen size - 0.28 mm dot matrix



### Parnet Adaptor for CDTV

Connect a CDTV player to any Amiga, and access the vast range of CD - ROM software. The Parnet interface and software will allow the Amiga CDTV to be used as a CD - ROM drive with any Amiga and will give any Amiga owner access to the vast range of CDTV software currently available. The CDTV player offers excellent value for money compared with a standard CD - ROM drive and interface. Most CD - ROM drives will set you back over £400. CDTV will cost you less than £300 and will play audio in addition to CD - ROM / CDTV disks your Amiga. Includes face cable and PD disk with driver software for your CDTV player.

**INDI PRICE £39.99**

**A4000/030 PLUS CDTV + 1960 MONITOR**

**INDI PRICE £1599.99**

**CDTV + PARNET.**

**INDI PRICE £329.99**

## AMIGA A600 PRICE CRASH



THE WILD THE WEIRD AND THE WICKED A600 is an ideal starter pack containing a considered mix of software, making the most of the Amigas capabilities.

### PACK CONTAINS:

- \* A600 Single Drive
- \* Built in TV Modulator
- \* 1 Mb Memory
- \* Pushover: Grandprix
- \* Silly Putty: Deluxe Paint III
- \* Mouse and Manuals

NEW LOW LOW PRICES

~~£789.99~~

**£215.99**

**A600 - SD** A single drive Amiga for those of you requiring a basic A600 at a very competitive price.

PACK INCLUDES: A600 single drive, built in TV modulator, 1 Mb memory, 12 Months home service

- INDI VALUE ADDED FREE \* Kick Off 2 \* Pipemania \* Space Ace
- \* Populous \* Microswitched Joystick

**INDI PRICE** ~~£739.99~~ **£189.99**

### A600 EPIC PACK (40 Mb HD) PACK INCLUDES:

**A600 Hard Disks (40Mb) \* 1 Mb Memory \* Epic \* Rome \* Myth \* Trivial Pursuit \* Amiga Text \* Deluxe Paint III \* 12 Months at home service.**

**PLUS INDI ACCESSORIES PACK AS LISTED COMES WITH AN EXTRA 512K RAM EXPANSION FREE.**

**INDI PRICE** ~~£395.99~~ **£379.99**

### INDI A600 ACCESSORY PACK

- \* Microswitched Joystick \* Lockable Disk Box \* Disk Wallet \* 10 Blank Disks \* Kick Off 2 \* Pipemania \* Space Ace \* Populous \* Zapsac Carry Case \* Zappo T - Shirt.

**INDI PRICE £26.99**

**TERMS AVAILABLE OVER 6, 12, 24, & 36 MONTHS SUBJECT TO STATUS. WHY NOT RING FOR A QUOTE. SAMEDAY RESPONSE. (SEE EXAMPLE)**

# Panasonic Quiet Colour Printing



We researched the colour printer market at great depth to find a colour printer good enough to cope with Amiga's powerful output, yet at an affordable price. We found the perfect printer in the KX - P2180 and KX - P2123 quiet printers.

We then considered that if you were going to buy a Panasonic printer you would probably need a quality word processing package to use with it. We found that too, with 'Wordworth' yet at a retail price of £129.99 we thought that might be a little too expensive on top of your printer purchase! So together with Panasonic we decided to give a copy of 'Wordworth' free with every Panasonic printer. How's that for added value?

## Panasonic KX - P2180



**\*WORDWORTH COMPLETELY FREE! WITH PANASONIC QUIET PRINTERS.** The writers choice. The ultimate word processor for AMIGA computers. Wordworth is undoubtedly the ultimate word / document processor for the full range of AMIGA computers. The graphical nature of WORDWORTH makes producing documents faster and easier, with the enhanced printing fonts (including full Panasonic KX - P2180 and KX - P2123 colour printing support), Collins spell checker and thesaurus, no other word processor comes close. "Without doubt this is one of the best document processors for the AMIGA, Today" (Amiga Format)

**NORMAL RRP £129.99 inc. VAT**

**INDI PRICE**

**£189.99**

**INDI PRICE**

**£239.99**

The new Panasonic KX - P2180 9-pin quiet printer. Produces crisp clear text in mono or in 7 glorious colours with new quiet technology. The new KX - P2180 is typically 15dBa quieter in operation, than the competition.

- **Fast Printing Speeds** 192 CPS NLQ
- **Colour Printing** 7 colour palette (blue, red, green, yellow, violet, magenta, black)
- **Quiet printing** Super quiet 45 - 48 dBA sound level (most matrix printers are typically in excess of 60 dBA)
- **6 Resident Fonts** Over 6,100 type styles using Courier Prestige, Bold PS, Roman, Script and Sans Serif Fonts.
- **3 Paper Paths** Paper handling from bottom, top and rear for total flexibility
- **1 Year Warranty** for total peace of mind



The new high performance Panasonic KX - P2123 24 pin. Quiet colour printer offers leading edge quiet printing technology at an affordable price

- **Fast Printing Speeds** 192 CPS draft, 64 CPS LQ and 32 SLQ.
- **Colour Printing** 7 colour palette (blue, red, green, yellow, violet, magenta, black)
- **Quiet Printing** Super quiet 43.5 - 46 dBA sound level (most matrix printers are typically in excess of 60 dBA)
- **7 Resident Fonts** Over 152,000 type styles using Super LQ, Courier Prestige, Bold PS, Roman, Script, and Sans Serif Fonts.
- **24PIN Diamond Printhead** High performance and high quality output
- **1 Year Warranty** for total peace of mind.

## Panasonic LASER PRINTER

### KX - P4410 LASER PRINTER



**WORDWORTH COMPLETELY FREE WITH PANASONIC LASER PRINTERS.** The writers choice. The ultimate word processor for AMIGA computers. **NORMAL RRP £129.99 inc. VAT**

### KX - P4430 LASER PRINTER



Once again INDI have joined together with Panasonic to offer all Amiga owners the most outstanding Laser Printer offer ever. We are now able to offer high quality, professional laser printing at affordable prices. We are also giving away a copy of Wordworth with every Panasonic Laser Printer purchased (RRP £129.99). Whether you are looking for a laser printer to handle word processing, DTP, presentation or complex graphic applications - the Panasonic range offers you the power to meet your requirements.

#### KXP - 4410

- 5 pages per minute
- 28 resident fonts
- Optional 2nd input bin (total printer capacity 2 x 200 sheets)
- Low running costs
- Parallel interface
- Optional memory expansion to 4.5 Mb (0.5 as standard)
- HP laserjet II Emulation

**INDI PRICE**

**£499.99**

inc. VAT

Imminent price increase. This price while stocks last.

**WORDWORTH COMPLETELY FREE WITH LASER PRINTERS**



#### KXP - 4430

- Satinprint (optimum resolution technology)\*
- 5 Pages per minute
- HP Laserjet III Emulation, PCL 5
- 8 Scalable fonts & 28 bitmap functions
- Optional 2nd input bin (total printer capacity 2 x 200 sheets)
- Optional memory expansion to 5.0 Mb (1 Mb as standard)

**INDI PRICE**

**£699.99**

inc. VAT

Imminent price increase. This price while stocks last.

\*Satinprinters use optimum resolution technology to produce truly outstanding print quality. This software technique smooths away traditional jagged edges on curved characters and lines by varying the printed dot size

**WORDWORTH COMPLETELY FREE WITH LASER PRINTERS**

## Panasonic PRINTER ACCESSORIES



**1) PANASONIC AUTOMATIC SHEET FEEDER** Automatic sheet feeder for KXP 2180/ KXP 2123 holds 80 A4 sheets. **INDI PRICE £89.99**

**2) PRINT DUST COVER** Specially tailored quality dust cover for Panasonic KXP 2180/ KXP 2123 printer. **INDI PRICE £8.99**

**3) PRINTER STAND** 2 piece printer stand. **INDI PRICE £9.99**

**4) PAPER PACK** 500 sheets quality A4 paper. **INDI PRICE £9.99**

**5) CONTINUOUS PAPER** 2000 sheets 1 part listing paper. **INDI PRICE £19.99**

**6) PARALLEL PRINTER CABLE** To be used when connecting Amiga to Panasonic printers. **INDI PRICE £8.99** (£5.99 if purchased with a printer)

**7) PANASONIC COLOUR RIBBON** Colour ribbon for KXP 2180/ KXP 2123. **INDI PRICE £18.99**

**8) PANASONIC BLACK RIBBON**

**SAVE ££££ ON THE FOLLOWING ACCESSORY PACKS**

**PACK 1 PANASONIC COLOUR RIBBON PACK** Contains 6 colour ribbons for the KXP 2123 RRP £119.99. **INDI PRICE £34.99 SAVE £30!!!**

**PACK 2 PANASONIC RIBBON PACK** Contains 2 black and 4 colour ribbons for KXP 2180/ KXP 2123. RRP £99.99. **INDI PRICE £69.99 SAVE £30!!!**

**PACK 3 PANASONIC DELUXE ACCESSORY PACK** Contains automatic sheet feeder, 2 black ribbons, 2 colour ribbons, 1 dust cover, 2 piece printer stand. RRP £169.99 **INDI PRICE £139.99 SAVE £30**

**WANT THE BEST IN PROFESSIONAL AMIGA. WHY NOT TAKE ADVANTAGE OF THE CREDIT DEALS AVAILABLE (SUBJECT TO STATUS). CREDIT AVAILABLE ON 6, 12, 18, 24, 36 MONTHS. WHY NOT RING NOW FOR A QUOTE. SAME DAY RESPONSE.**



# AMIGA RECOMMENDED PERIPHERALS & ACCESSORIES

## NEW FROM MICROBOTICS!!! M1230XA ACCELERATOR LAUNCH!!

Microbotics beats the competition in price/ performance/ features and configurations. INDI is very pleased to announce the availability of the new 68030 accelerator product for the A1200: the microbotics M1230 XA (call it the "XA" for short). 50 Mhz as standard! Huge 128 MB memory design is standard (the biggest memory space in any A1200 peripheral) just look at these specifications and prices!

- M1230 XA W/40 MHZ EC 030 0MB **INDI PRICE £299.99**
- M1230 XA W/40 MHZ EC 030 4MB **INDI PRICE £399.99**
- M1230 XA W/40 MHZ EC 030 8MB **INDI PRICE £499.99**
- M1230 XA W/50 MHZ MMU 030 0MB **INDI PRICE £399.99**
- M1230 XA W/50 MHZ MMU 030 4MB **INDI PRICE £499.99**
- M1230 XA W/50 MHZ MMU 030 8MB **INDI PRICE £599.99**



## MBX1200.

The original and best floating point unit and memory upgrade for the Amiga A1200. Available with 0,4 or 8 MB 32 bit Fast RAM and a choice of floating point units. Now complete with real time clock (RTC)

- 1MBX1200Z 6881 14 MHZ 0MB **INDI PRICE £149.00**
- MBX1200Z 6881 14 MHZ 4MB **INDI PRICE £299.00**
- MBX1200Z 6881 14 MHZ 8MB **INDI PRICE £399.00**
- MBX1200Z 6882 25 MHZ 0MB **INDI PRICE £199.00**
- MBX1200Z 6882 25 MHZ 4MB **INDI PRICE £349.00**
- MBX1200Z 6882 25 MHZ 8MB **INDI PRICE £429.00**
- MBX1200Z 6882 50 MHZ 0 MB **INDI PRICE £399.00**
- MBX1200Z 6882 50 MHZ 4MB **INDI PRICE £499.00**
- MBX1200Z 6882 50 MHZ 8MB **INDI PRICE £599.00**

## MEMORY UPGRADES AND ACCESSORIES

**M501** The original 0.5MB battery backed upgrade for the A500.

**INDI PRICE £29.99**

**M502** The original 1 MB battery backed upgrade for the A500.

**INDI PRICE £49.99**

**8 Up memory board.** Designed for the A1500/ A2000. Memory upgradeable to 2/ 4 or 8MB

**INDI PRICE £69.99**

**Hard frame** suitable for A1500/ A2000. Allows for the interface of a SCSI hard drive.

**INDI PRICE £110.99**



## AUDIO VISUAL

**MEGAMIX.** Low cost, hi spec digital effects cartridge plugs into the printer port of the Amiga. Allows stereo sampling from almost any musical source.

**INDI PRICE £29.99**



**VIDI AMIGA 12.** The ultimate low cost colour digitiser for the Amiga. "The best value full colour digitiser on the market" AMIGA FORMAT.

**INDI PRICE £75.99**



**TAKE 2.** Animation package is a must for computer artists and enthusiasts of all ages. As used in Rolf Harris Cartoon Club.

**INDI PRICE £37.99**



## ROCTEC ROCTEC

Entry level Genlock for all Amigas. Record stunning Amiga Graphics standard video or overlay text and graphics onto a video signal.

**INDI PRICE £69.99**

## ROCTEC ROCTEC PLUS.

As above but with extra features such as tinting and signal inversion. Allows for real time editing of graphics. Compatible with all Amigas.

**INDI PRICE £133.99**

## ROCTEC ROCKEY.

The ultimate accessory for Amiga / Video fans. Separate RGB controls to chroma key on any colour.

**INDI PRICE £249.99**

## PYRAMID SCANNER.

A total hand held scanning package for all Amigas complete with interface and software.(mono)

**INDI PRICE £99.99**

## AMIGA PERIPHERALS



**2MB SMARTCARD.** The original and still the only fully PCMCIA compatible memory card for A600/ A1200. Comes with lifetime guarantee. Beware of cheap imitations.

**INDI PRICE £129.99**

**4MB SMARTCARD.** Same as above but maximum 4MB.

**INDI PRICE £199.99**

## ZAPPO 601.

Trapdoor upgrade for the A600. 1MB with RTC.

**INDI PRICE £49.99**

**ZAPPO 601 INC.** As above only

512K no clock: **INDI PRICE £29.99**



## DISK DRIVES



## ZAPPO EXTERNAL FLOPPY

You've seen all the reviews on this popular and affordable second Amiga drive. Compatible with all Amigas.

**INDI PRICE £59.99**

"Quality: 9 out of 10." Exceptional value for money.  
**AMIGA COMPUTING JAN 93**

## MONITOR



## 1084ST MONITOR.

Commodore's original and best selling colour stereo monitor. Now includes swivel and tilt stand for total ease of use.

**INDI PRICE £189.99**

(£179.99 if purchased with A600 / A1200 / A1500)



## Third Party OpalVision Software

(Available now or coming soon)

Aladdin 4D, Amilink Video Editing Products, Art Department Professional, Caligari 24, Cine Morph, Fractal Pro, Image FX, Imagemaster, Imagine, Michtron Entertainment Products Morph Plus, Real 3D, Scala Multi media 200, Texture City Image Libraries, 3D Professional, Transporter, Tv Paint, Vista Pro, Video Visions and more!!!

## The NEW OPAL VISION system (Rev.2)

The amazing Opalvision 24-bit graphics board and software suite has been updated and is now even better value for money.

The software suite now includes:

**Opal Paint V2.0** - Now includes full magic wand implementation and Alpha Channel that allows photo compositing with selectable levels on a pixel by pixel basis. The new Chrominance effect allows absolute, real time control of image contrast, brilliance and re-mapping of colours.

**Opal AnimMATE V2.0** - offering real time play back of animations created by ray tracers, landscape generators, morphers and all other 24-bit software.

**Opal Hotkey V2.0** - Display OpalVision graphics anytime with key combinations.

**Opal Presents** - Comprehensive, icon-driven presentation package. Special Limited offer

**IMAGINE V2.0** for only **£59.99** when purchased with OPALVISION. Imagine 3D is the most popular 3D rendering software, that now supports OpalVision. This is a full version that would cost £300 if purchased separately.

"Quite simply, it's a spectacular product" - Amiga Computing

"Undoubtedly the finest, most professional paint program to arrive on the Amiga" - Amiga Format

"Professional quality at this Price can't be turned away" - Amiga User International

"The verdict was unanimous - brilliant" - Amiga Shopper

**INDI PRICE £599.99**

## OpalVision NEWS FLASH

At Last - OpalVision Upgrade Modules!

OpalVision Video Processor - Plugs into the OpalVision mainboard, adds a wealth of additional features \* 24 Bit real-time frame grab from composite or S-Video. \* Professional quality genlocking \* VLSI microcode processor "Roaster Cip" for Digital Video Effects. \* Luminance & Chroma Keying \* 256-level "Alpha Channel" (transparency) key. Management Software

Full specification available on request

**OpalVision Video Suite** - An advanced external rack mounted video and audio switching device with its own internal computer. 9 video and 10 audio inputs, 24-bit frame store and a host of special effects triggered manually or automatically. Full specification available on request

**OpalVision Scan - Rate Convertor** - For 31 KHz non-linear output of Amiga graphics, OpalVision images and any Pal or NTSC. Time Base Correction adds to the list of professional features of a that simply plugs into the OpalVision main board. Full specification available on request

## Amiga 4000 OpalVision Systems

Complete Amiga 4000 / OpalVision systems are available for a range of applications

\* Graphics/ Fine Artists \* Multimedia \* Videographers \* Animation Desktop Publishing \* Designers

**12 MONTHS INTEREST FREE CREDIT AVAILABLE ON CDTV EXTERNAL HARD DISK SUBJECT TO STATUS. LOW INTEREST CREDIT AVAILABLE ON ALL ORDERS OVER £200**

**AMIGA CDTV THE MULTIMEDIA COMPUTER TOTAL HOME ENTERTAINMENT SYSTEM**



**MONITOR NOT INCLUDED**

**ENTERTAINMENT SYSTEM**

The problem with any new product is that it always takes time for everyone to realise its full potential. CDTV is no exception and in our opinion everything we have read does a pretty poor job of explaining just what CDTV can do and why it is so exciting.

**THE INDI GUIDE TO CDTV**

**IT'S A CDTV PLAYER** - Yes, it will play all your Primal Scream, Pavarotti, Pink Floyd and any other CD you care to mention in superb high quality stereo, with infra red remote control.  
**IT' AN AMIGA** - Plug in the keyboard, switch on the external disk drive and the colossal range of inexpensive Amiga Software can be used on CDTV.

**IT'S A MULTIMEDIA SYSTEM** - Just imagine, stereo sound, images and text all on screen. It asks a question, you respond, it responds - truly interactive! Each CD disk holds hundreds of megabytes of data with instant optical access. The whole of Hutchinsons encyclopaedia fits on to one disk. This interactive system is a unique aid for Education, Business or Leisure. The future is here!

**PACK CONTENTS AS STANDARD** \* Amiga CDTV Player \* CDTV Keyboard \* CDTV 1411 3.5" Disk Drive \* CDTV Infra Red Remote Controller \* CDTV Wired Mouse \* CDTV Welcome Disk \* Manuals \* Fred Fish CDTV Disk

**INDI VALUE ADDED FREE** \* Lemmings CDTV (£34.99)

\* Blues Brothers (£12.99)  
 \* Pipemania, Populous, Kickoff 2, Space Ace.

**PRICE CRASH** ~~£399.99~~

**INDI PRICE**  
 PACK AS SHOWN **£329.99**  
 MULTI MEDIA PACK WITHOUT INDI VALUE ADDED **£329.99**

**CDTV CONNECTS DIRECTLY TO YOUR TV SET**

**AMIGA CDTV ACCESSORIES**

**THE BRICK - ETTE**  
 Just plug in the brick - ette and use any wired Amiga compatible joystick, mouse or trackball device on the Commodore CDTV. The built - in 8 - bit Micro Processor gives the Brick - ette big smarts in a tiny package and makes it easy to use just plug into the remote port and it is ready to go with real time mouse or joystick movement on your screen.

No loading of driver programs or software. No switches for mouse or joystick. Special settings (with remote) allow you to blast away with three rapid fire modes & dual fire buttons. Comes complete with Micro switched joystick.  
**INDI EXCLUSIVE £49.99**  
 (with two joysticks £59.99)

**BLACK 1084S MONITOR**  
 At last the CDTV Monitor you have been waiting for. The original and best selling colour/ stereo monitor from Commodore is now available in black to complement your CDTV.  
**INDI PRICE £189.99**  
 (or £179.99 when purchased with CDTV Multi Media pack)



**AMIGA CDTV EXTERNAL HARD DISK DRIVE**

You've got the CDTV, you've got the keyboard and the floppy disk drive - for a total computer solution all that's needed is an ultra fast hard disk drive. The CDTV - HD unit boasts a massive 85 Mb of hard disk storage with lightning fast access times through its SCSI interface. The unit comes complete with Workbench 1.3 and all necessary cables.



If you are thinking of buying CDTV or already own one you'll be pleased to know that INDI stock all CDTV accessories and software that are available from manufacturers. We believe in CDTV and we therefore continue to support this exciting product. You will always have a source of product for your CDTV from INDI.

- L to R**  
 CDTV Encore SCSI Controller + Internal Mount £109.99  
 CDTV Internal Genlock £149.99  
 Black 1084S Colour Stereo Monitor £189.99  
 (When purchased with CDTV Multi - Media Pack) £179.99  
 CDTV Remote Mouse £49.99  
 Scart TV / Monitor Lead £14.99  
 (inc Stereo Phono Lead)  
 Megachip - 1Mb Upgrade Chip RAM Upgrade for CDTV £159.99  
 CDTV Trackball £69.99

**INDI PRICE**  
**£299.99**



**AMIGA CDTV SOFTWARE**

**SEE THE JAKKI BRAMBLES PAGE FOR DETAILS OF THE INDI SOFTWARE CLUB**

SPORTS AND LEISURE	EDUCATION	MUSIC	REFERENCE
Advanced Military Systems £29.99	New School - Under 5's £24.99	Guy Spy £29.99	American Heritage Dictionary £49.99
Women in Motion £29.99	A long Hard Day at the Ranch £34.99	Cover Girl Poker £24.99	Complete Works of Shakespeare £29.99
Guinness Disc of Records £34.99	Album for Barney £29.99	Logical £25.99	Illustrated Holy Bible £29.99
Animals in Motion £29.99	Conterella £39.99	Prey £34.99	New Basic Electronic Cookbook £39.99
Connoisseur Fine Arts £34.99	New School for 6 to 7 £24.99	Curse of Ra £24.99	Timetable of Business £39.99
Fruits & Vegetables £34.99	New School for Over 7's £24.99	Space Wars £29.99	Timetable of Science £39.99
Flowers & Shrubs £34.99	Teacher Hits her First Home Run £34.99	Voicemaster + Microphone £39.99	World Vista Atlas £54.99
Garden Plants £34.99	English as a 2nd Language £34.99	Voice FX £19.99	Dr Wellman £54.99
Indoor Plants £34.99	Mud Puddle £34.99		
EDUCATION	My Paint £29.99		
New School - Under 5's £24.99	North Polar Expedition £49.99		
A long Hard Day at the Ranch £34.99	Paper Bag Princess £34.99		
Album for Barney £29.99	Scary Poems for Rotten Kids £39.99		
Conterella £39.99	Tale of Benjamin Bunny £39.99		
New School for 6 to 7 £24.99	Tale of Peter Rabbit £39.99		
New School for Over 7's £24.99	Thomas 's Snowsuit £34.99		
Teacher Hits her First Home Run £34.99	Moving Gives me Stomach Ache £34.99		
English as a 2nd Language £34.99	Barney Bear Goes Camping £29.99		
	Asterix English for French I £34.99		
	Japan World (PAL) £49.99		
	NASA, the 25th Year £19.99		
	Fractal Universe £34.99		
	ENTERTAINMENT		
	Battlechess £39.99		
	Battle Storm £29.99		
	Fred Fish (CD PDI) £19.99		
	All Dogs Go To Heaven: Electric Crayon £34.99		
	Ultimate Basketball £29.99		
	Classic Board Games £34.99		
	Dinosaurs for Hire £14.99		
	Hounds of the Baskevilles £29.99		
	Psycho Killer £29.99		
	Sherlock Holmes £39.99		
	Consulting Detective £39.99		
	Sim City £29.99		
	Trivial Pursuit (PAL) £49.99		
	Wrath of the Demon £29.99		
	Team Yankee £34.99		
	Raffles £34.99		
	Prehistorik £34.99		
	Snoopy £34.99		
	Town with No Name £29.99		
	Lemmings £34.99		
	European Space Simulator £34.99		
	Fantastic Voyage £34.99		
	Global Chaos £29.99		
	Turrican I £29.99		
	Turrican II £29.99		



**DESPATCH**

All orders received by 6pm Monday to Friday are despatched sameday for delivery using our national courier - Securicor. (UK Mainland only). Saturday deliveries are available at a small surcharge. If you are out when we deliver, a card will be left at your home giving you a contact telephone number to arrange a convenient re - delivery. Delivery queries can be resolved immediately using our on - line computer. Cheque orders are despatched immediately on cheque clearance, usually 10 working days from receipt. A delivery charge of £5.00 is made per item unless otherwise stated. **WE ALSO ACCEPT B.F.P.O. ORDERS (DUTY FREE) CARRIAGE CHARGE AT UK POSTAL RATES.**

**HOW TO ORDER**

**BY POST** - Simply fill in the coupon below.  
**BY PHONE** - phone lines open 9.00am - 7.00pm Mon - Fri. 9.00am - 4.30pm Sat. - where your call will be answered by one of our INDI sales team. After 7.00pm each day your call will be answered by answerphone. If you would like to place an order have all the details at hand including credit card. All offers subject to availability. Prices correct at time of going to press. May we suggest you call before ordering.

**SEND YOUR ORDER TO:**

**INDI DIRECT MAIL**  
 1 RINGWAY INDUSTRIAL ESTATE,  
 EASTERN AVENUE,  
 LICHFIELD  
 STAFFS. WS13 7SF

**CU0793**

Please send.....  
 1).....  
 2).....  
 3).....  
 4).....

Price..... + Delivery.

I enclose cheque/ PO for £.....  
 or charge my Access/ Visa No.....

Expiry...../...../.....

Signature.....

Name.....

Address.....

Deliver to if different.....

Daytime Tel.....

Postcode.....

**TEL 0543 419999 FAX 0543 418079**

**A**lthough some misinformed pundits sneer at the Amiga as a 'serious' machine, it can do almost everything that a PC can and much, much more. Even Amigas costing as little as £199 are capable of running complex software ranging from word processors to image processors and sound sample editors. Having said that, sooner or later most serious users will want to increase the power of their machine in some way.

Upgrading your Amiga needn't cost an arm and a leg. There are some add-ons which are quite inexpensive, yet can make a significant difference to your computing life. Here we take a look at some of the most interesting ones.

## RAM ROUND-UP

Memory is the Amiga's temporary storage space, where it holds the information relevant to a program that is being run. Some programs such as games don't really need a great deal of memory because they've been programmed to work in 1Mb or less. Nevertheless, they may run more efficiently if you increase the amount of RAM. Utility programs, on the other hand, may need to store lots of temporary data in memory and can sometimes need as much memory as possible.

Although 1Mb has more or less become the minimum standard nowadays, more and more programs require 3, 4 and even more Mbs to operate in efficiently.

Due to their architecture, each different Amiga model (A500, 500+, 600, 1200, 2000 and 4000) requires a different type of RAM. As you move towards the higher number Amigas (A1200 and upwards), it's rare to find RAM cards that come on their own. Most RAM is added on a board that does something else - an accelerator or PC emulator for example.

## A500 UPGRADES

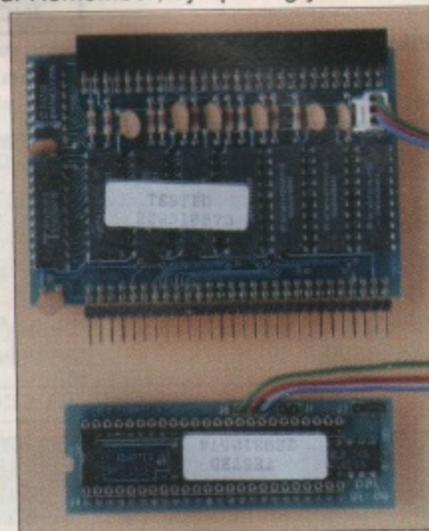
### A500 1 MB EXPANSION WITH THROUGH-PORT

£49.00 • POWER COMPUTING •  
0234 843388

This trap door memory expansion uses low power 256x4 DRAM chips to provide 1Mb of extra memory for an A500. However, where it differs from most expansions is in its through-port. This means that if you wish to further upgrade your computer, provided you use half size RAM (which most of them are nowadays), you can simply plug a second card straight into the end of this one.

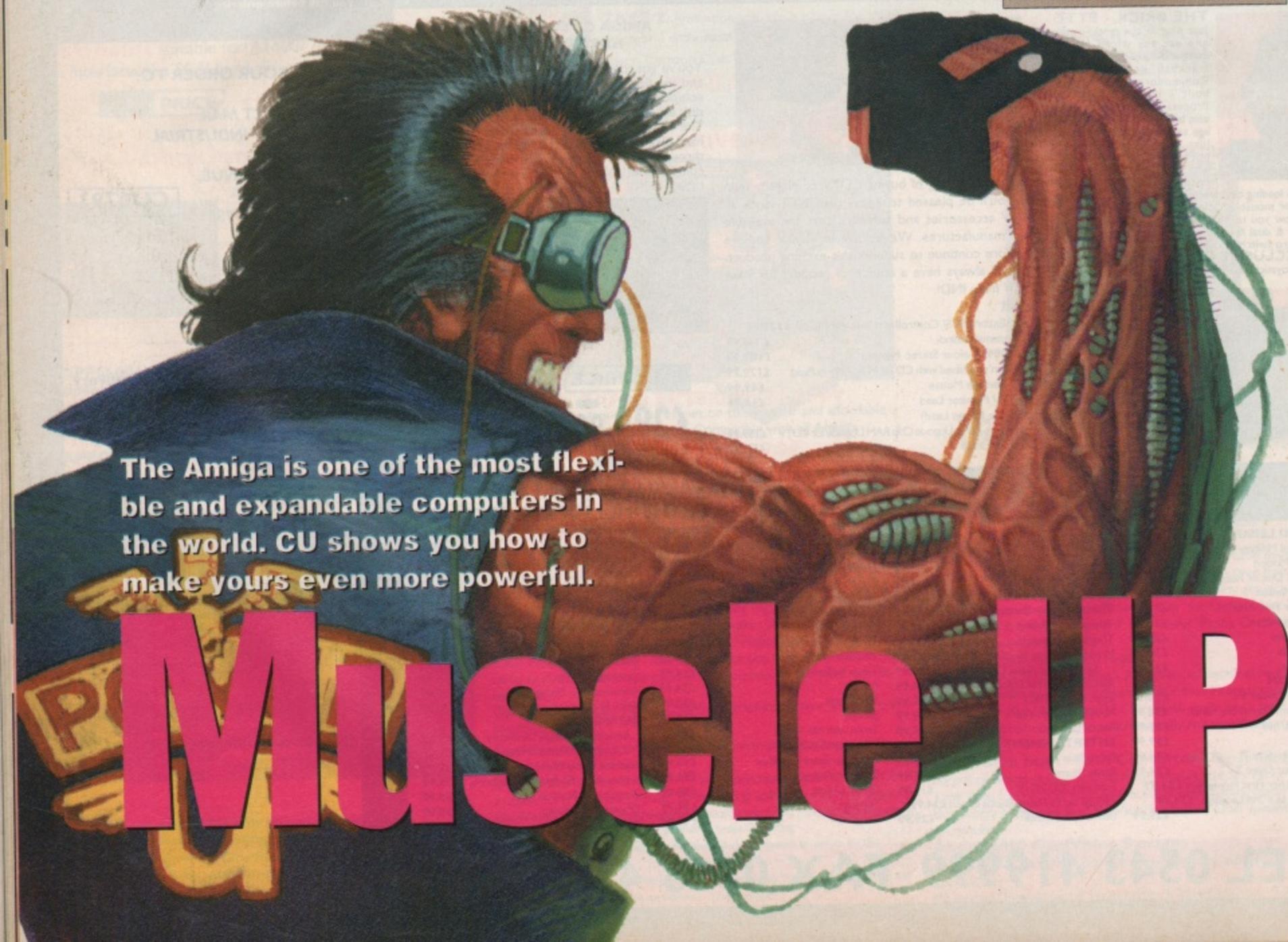
To use this RAM card you'll need to open up your Amiga and plug a mini-circuit board into the slot where the Gary chip sits. The Gary chip is then inserted into the mini-circuit board. Remember, by opening your Amiga you invalidate your warranty, although I don't suppose there are many 1.2/3 Amigas that still have a warranty by now. Nevertheless, if the thought of messing about with delicate chips makes you nervous, perhaps you should look at other alternatives.

Instructions are also provided to enable you to perform an advanced installation on Amigas that have Kickstart 1.3 or higher. This installation upgrades your memory to give you a full 1Mb of Chip RAM. Unfortunately it's not suitable for the A500+ machine.



The Amiga is one of the most flexible and expandable computers in the world. CU shows you how to make yours even more powerful.

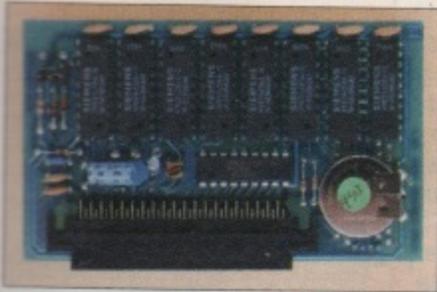
# Muscle UP



**PC501 HALF MEG CARD****£24.95-£29.95 • POWER COMPUTING • 0234 843388**

The PC501 is about as ordinary as a trap-door RAM expansion can be. Roughly the size of a narrow credit card, it uses 256x4 DRAMs and is ideal for plugging into the 1Mb with through-port expansion reviewed on the previous page. If you're going to use it on its own, I think it's a tad overpriced at £29.95 especially as it doesn't even include an on/off switch. Mind you, at least it includes a battery-backed clock.

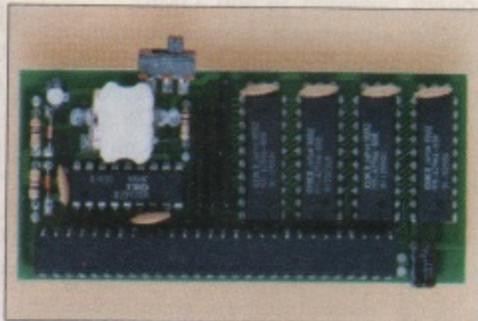
If you don't think that a clock is important you can buy a version without for £24.95. Not suitable for A500+.

**ZYDEC HALF MB MEMORY UPGRADE****EVESHAM MICROS • £19.99 • 0386 765500**

Although the board layout is slightly different (and less neat) than Power's PC501, the Zydec RAM very similar in every other way. It too includes a battery backed clock and is little smaller in size than the PC501.

It does, however, come in a pretty box and it includes an on/off switch!

Not suitable for A500+.

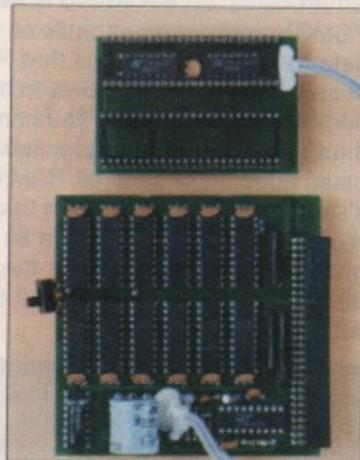
**ZYDEC AMIGA 500 1.5MB MEMORY UPGRADE****£99.99 • ANY RETAILER**

Another board to take your A500 beyond 1Mb, this time manufactured by Zydec, this is a real monster of a board and is unlikely to win any design awards.

It plugs into the trap-door and again needs you to plug an extra board (supplied) into the Gary chip slot. The Gary chip is then plugged into the mini-circuit board that's attached to the main RAM by an eight inch wire.

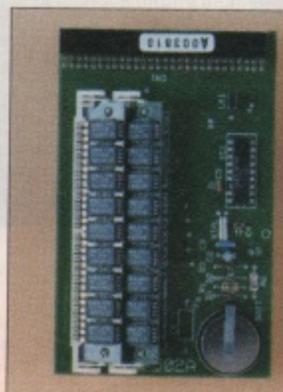
Fitting this board will invalidate your warranty, but the process is easy enough if you take your time.

Unlike the Power board, this one also includes a battery backed clock and an on/off switch. The Gary board is also fitted with extension legs to lift it clear of the main motherboard.

**AMITEK 512K RAM BOARD WITH CLOCK****£23.95 • SILICA SYSTEMS • 081 309 1111**

This last A500 expansion looks as if it hails from the days when people were still paying £150 for Commodore's A501 expansion. It uses 256x1 DRAMs and includes a clock. It appears extremely well made, even if the board design is somewhat dated now.

It doesn't include an off/off switch, but it does have a clock and is by far the cheapest expansion reviewed.

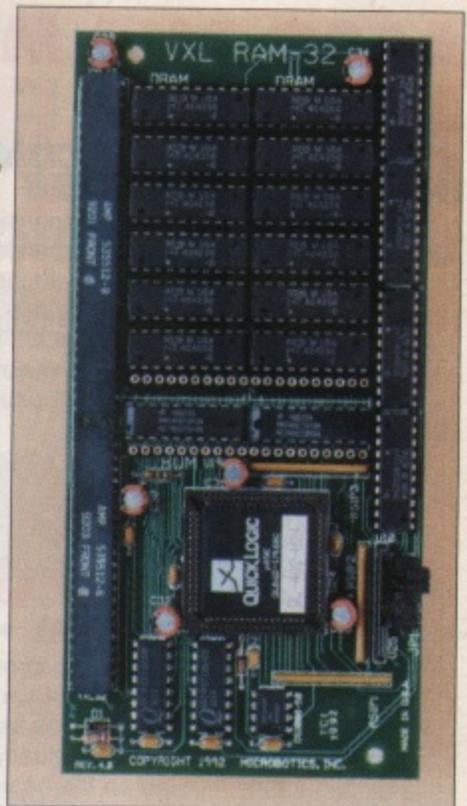
**MICROBOTICS VXL RAM-32****£170 FOR 2 MB • MICROPAGE • 0753 551888**

Unlike the other A500 expansions reviewed here, the VXL RAM-32 can't be used on its own – it has to be plugged into the VXL-30 Accelerator.

However, it has a great advantage over other RAM systems reviewed because it is 32-bits as opposed to 16-bits wide. This means that all operations performed via this RAM will also be accordingly faster.

The VXL RAM-32 is supplied with between 2 and 8Mb of RAM, and this is configured using a combination of jumper blocks and software settings.

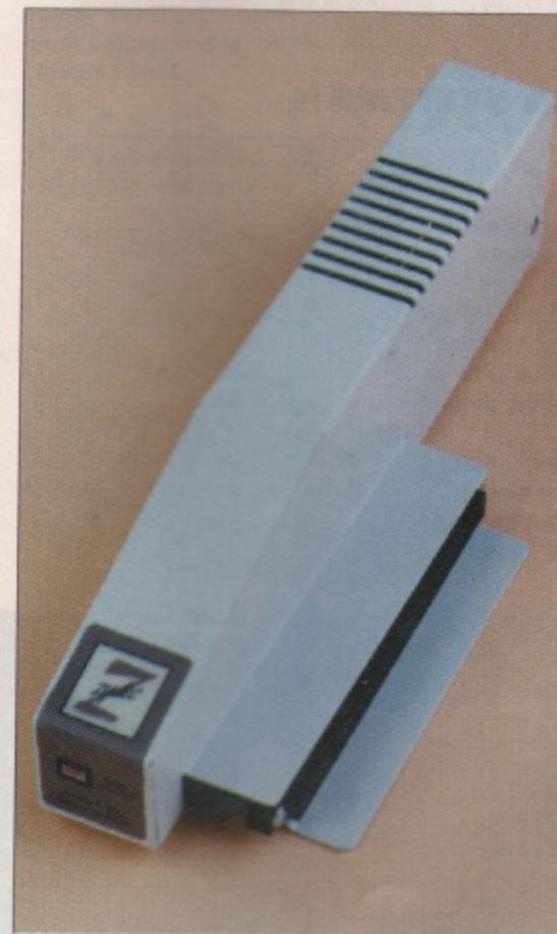
The VXL RAM-32 can be plugged into both an A500 and A500+ (and an A2000). Installation will invalidate your guarantee, but boy it's worth it! Well worth the initial cost of purchase.

**ZYDEC A500 EXTERNAL 8MB RAM BOARD****£169.99 WITH 2 MB • ANY RETAILER**

For those of you who want to expand beyond the usual couple of megs, or who don't want to invalidate your warranty, this unit really is very nice indeed. Similar in appearance to the SupraRAM, the Zydec board plugs into the expansion port at the side of the Amiga. It even has a through port so that you can still add further peripherals (such as hard drives, scanners, Action Replay cartridges, etc.) to your computer.

It uses 256x4 16-bit ZIP chips and these can be added in steps of 2, 4 or 8Mb, and as usual the system is configured using jumper blocks.

The unit really is incredibly easy to use, just plug in, switch on and go. It has a light on the front to let you know when the RAM is being



accessed, and a socket at the back so that if you have a lot of power consuming extras plugged into your Amiga, you can add a power supply to your RAM board.

The whole thing is housed in a very sturdy metal case which is nicely colour co-ordinated to match the Amiga's plastic casing. The only tiny gripe that I have about this otherwise excellent unit is that when plugged in, it seemed to sit at rather an odd angle to the computer. Perhaps it's just that I got a duff one?

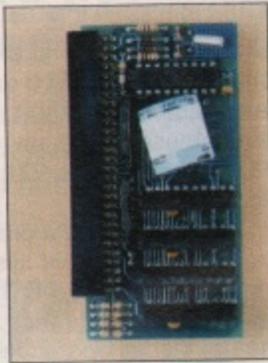
Suitable for any A500.

## » A600 UPGRADES

### A600 1MB MEMORY EXPANSION

£39.95 • POWER COMPUTING • 0234 843388

A nice straightforward trap-door expansion for the A600 – simply plug in and go. It expands the A600's chip RAM from 1 to 2 Mb without affecting your warranty. Uses 256x4 DRAMs and comes with an optional battery backed clock. There's no on/off switch, but as it's a chip expansion it isn't needed. The board is up to Power's usual high standards of workmanship.

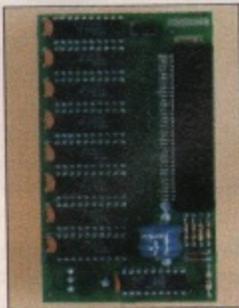


### ZYDEC A600 1MB MEMORY UPGRADE

£67.99 • ANY RETAILER

Another trap door expansion that is almost identical to Power's offering. Why then is there a £28 price difference you ask? There isn't an easy answer to that – it is usually down to the actual RAM chips used on the board, but would the user notice any difference?

Having said that, to be fair, Zydec products can be found at greatly reduced prices from store to store so it's well worth shopping around.



### AMITEK 2MB RAM CARD FOR THE 600

£119.95 • SILICA SYSTEMS • 081 309 1111

For sheer ease of use, the Smart card has to be tops. However, it only increases your Fast RAM, so it doesn't necessarily enable you to load more graphics or sound samples.

This 2Mb card plugs into the PCMCIA slot at the side of your A600 so you don't even need to open the trap-door to fit it. Note that this is different from the slot on the CDTV.

I must say, it's the chunkiest smart card I've ever seen, and it's not even particularly cheap. I guess you're paying for the convenience and ease of use.



## A1200 UPGRADES

### ALFARAM 1200

£115.00-£439 • GOLDEN IMAGE • 081 518 7373

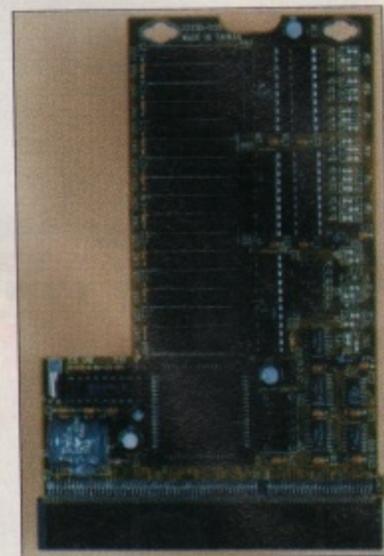
Although RAM upgrades for the A1200 are ten a penny now, this one from Golden Image is unusual for a number of reasons. It comes populated with 1Mb of RAM as standard, and can be upgraded to 5 or 9 Mb, to give your A1200 a maximum capacity of 11 (!) Mb. However, rather than offering this upgrade in the form of SIMMs modules, Golden Image have opted for ZIP chips, which are cheaper to purchase. This results in a board which offers exceptional value for money in my opinion.

It comes with a battery-backed clock as standard, and has space for a maths co-processor and oscillator rated at speeds between 16 and 33Mhz.

The various memory configurations are indicated by simply moving jumper blocks around. A program called SetMM is also provided for testing and configuring the board.

As a matter of interest, special warnings are given about the dangers of using a fully populated 9Mb board with a PCMCIA card. Apparently your A1200 can be permanently damaged by doing so.

Prices start at £115 for a 1Mb board and go up to £439 for a 9 Mb board with clock, 33MHz 68882 maths co-pro and oscillator.



### AMITEK 2MB RAM CARD FOR THE 1200

£119.95 • SILICA SYSTEMS • 081 309 1111

For the A600 this card was a dubious purchase, for the A1200 it's a definite no-no. The main disadvantage of using 'smart cards' on the A1200 is that the PCMCIA slot is only capable of 16-bit data transfer. This means that RAM access will be slowed down to half the normal speed whenever the contents of the PCMCIA card are accessed. The usual advantage of 16-bit RAM is that it's much cheaper, except in this case.

Apart from that, there are so many good combo expansions for the A1200, there's really no need to mess about with cards.



## MEMORY

Memory on the Amiga is a tricky business, mostly because there are several flavours and even worse, different models all have different expansion paths – do you use the trapdoor, a PCMCIA card or an external card? First you need to consider the types of memory – Chip memory is used for graphics and sound data, and because it must be shared between the processor and the custom chips it is quite slow at times. The amount of Chip memory supported by the Amiga depends on the version of the custom chips inside – old Amigas can have 512K to 1Mb, newer AGA models support 2Mb and need it all. Fast memory is used purely by the processor and basically you can never have enough – 4Mb is a nice amount, but I find that 8Mb has brought true enlightenment (at least for the time being). Any

Amiga fitted with a processor of type 68020 or above is capable of using 32-bit memory, which is organised to let the processor access it at top speed.

The 16-bit memory used in 68000 machines, and that available through PCMCIA cards, have access times twice as long. Extra-fast memory is usually available in the form of SIMM modules, although some A1200 expansion boards use ZIPs. One important point to realise when fitting extra memory to your system is that by buying a smaller capacity you may be limiting your future expansion. For example, the A4000/30 comes with two 1Mb SIMMs in its Fast memory expansion slots.

Adding two more 1Mb SIMMs will fill all four slots, and although 4Mb sounds a lot, if 4Mb SIMMs had been used from the outset the Amiga could have been

expanded to a wholesome 16Mb. Therefore bear in mind that very few expansion systems can support mixed sizes of memory modules, be they SIMM, ZIP or DIP. The rule of thumb is always buy the biggest module you can afford, or might find you have to throw away perfectly good memory six months later. Memory is available in several formats, of which the PCMCIA card is probably the most foolproof – cards of up to 4Mb are available but they are quite pricey at the moment.

Single In-line Memory Modules, more commonly known as SIMMs, are the next easiest to use. They were originally developed by Wang and consist of memory chips surface mounted to tiny circuit boards. SIMMs are available in 16 or 32-bit wide varieties depending on application, and clip into holders with negligible fuss. GVP hard

drives are keen to accept 16-bit SIMMs, whilst A1200 accelerator expansion cards nearly all use 32-bit SIMMs.

Further down memory lane are the ZIPs, or Zig-zap in-line packages, which pack lots of memory into very small spaces. A3000 motherboards and several A2000 hard cards use these miniature wonders. Finally, we have the trusty Dual in-line DIPs such as those used to expand the Commodore A590 harddrive. Apparently a good source of these chips are defunct PC VGA cards, so ask your PC-owning chums if they have any spare. When buying memory for your computer, go through this checklist: 1. Is the memory the correct format (DIP, ZIP, SIMM, Trapdoor)? 2. Do I need 16 or 32-bit memory? 3. Will buying this size hamper future expansion? 4. Is the memory of the correct speed? (80ns usually suffices).

# ACCELERATORS

**A**ccelerators used to be boards which replaced the Central Processing Unit (CPU) with a faster one. The CPU is the 'brain' that processes all information and instructions in order for programs to run. The faster the CPU 'thinks' the faster it can process information.

Now a number of companies have come up with alternatives that don't require new processors (which can be quite expensive). We'll be looking at a number of ways of improving the speed performance of your Amiga.

## A500 ACCELERATORS

### MICROBOTICS VXL-30

£400 • MICROPACE • 0753 551888

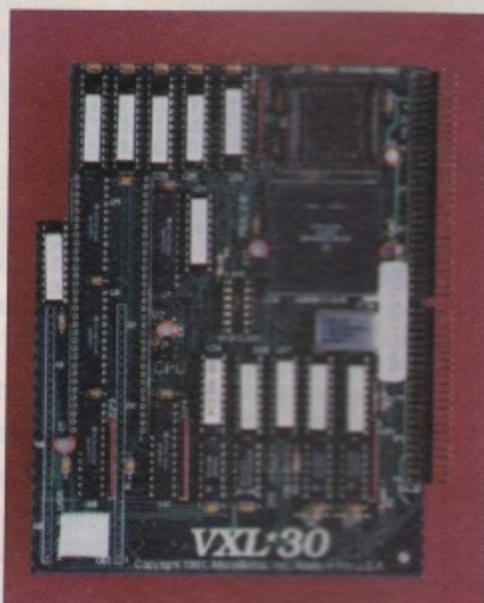
The VXL-30 comes in the form of a large board that fits inside the casing of your Amiga. It's a 25 MHz 68030 board with space on it for a maths co-processor.

To fit it the A500's 68000 chip has to be removed and the board fitted in its place. The 68000 is then fitted back into the board. When fitted to an A500+, the accelerator board needs to be raised up from the Amiga's motherboard, and extra legs can be purchased for the job. It would have been nice to see them included as standard, but there you go.

The card has an edge connector to which can be added an additional RAM card which in turn may be populated by up to 8Mb of 32-bit RAM.

The installation is quite straightforward and the instructions adequate if somewhat vague at times. To complete the installation, you must use the supplied software to specify the RAM and maths unit that you are using (if any). After that, the board is invisible to the user.

One option that I particularly liked about this board is the fact that it allows you to specify whether it should be switched on or off by default. Therefore if you use a lot of software that might conflict with it (games for example), you don't have to keep turning the board off before you can use them. Perhaps a bit pricey considering the competition.



## GVP A530 TURBO

£699 120 MB CAPACITY • SILICA SYSTEMS • 081 309 1111

This has been justifiably described time and again as the 'Ultimate A500 add-on', the A530 turbo combines a 40Mhz 68EC030 accelerator with a fast hard drive, SCSI interface, up to 8Mb of 32-bit RAM and space for a £100 PC emulator.

The drive simply plugs into the expansion port at the side of the Amiga and it's immediately ready to go. There's space on-board for an optional 68881 or 68882 maths co-processor and 32-bit RAM can be added in the form of 1, 2 or 4Mb SIMMS bringing the total up to 8Mb.

The accelerator itself is one of the best '030 upgrades available for the A500, although it is still a tad slower than the A3000, A4000/030 and some of the Zorro card accelerators.

The A530 is an excellent choice if you want an accelerator, RAM and a hard drive. Remember it has no through ports though.



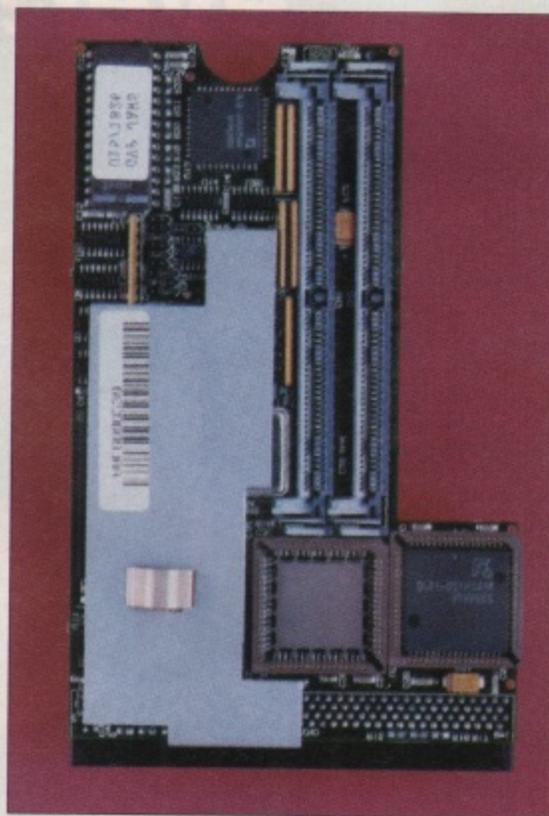
## A1200 ACCELERATORS

### GVP A1230 TURBO

£299(0MB) • £499(4MB) • SILICA SYSTEMS  
• 081 309 1111

Taking the experience they gained in developing the A530 Turbo, GVP were quick to release an A1200 accelerator which is very similar to the accelerator part of the A530. It runs at 40MHz and has space for a maths co-pro.

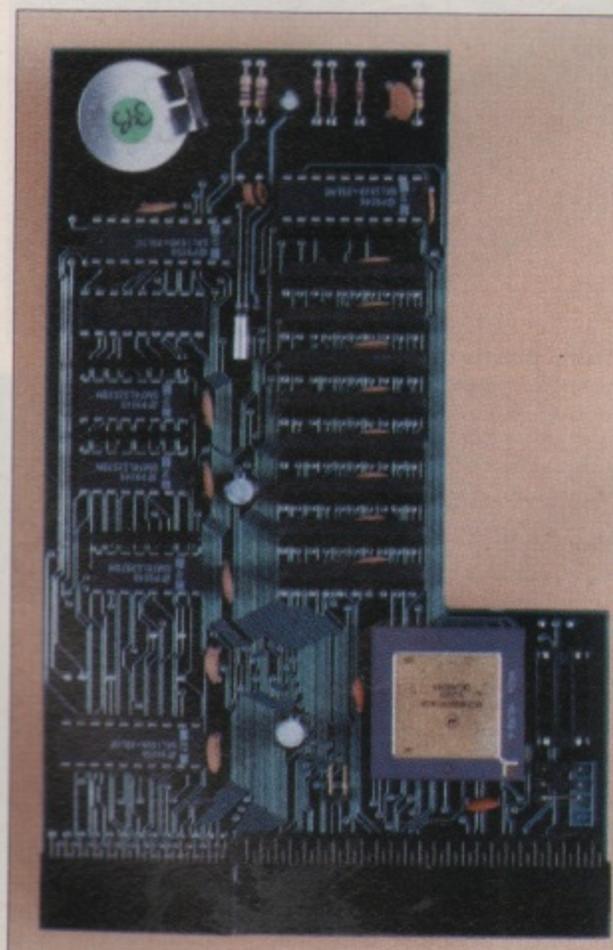
One important difference is the fact that the A1230 lets you add not 8 but 32 Mb of 32-bit RAM if you so desire. The down side of this is that you have to really decide how much RAM you want before you buy, as there aren't very many slots. There is nothing quite as annoying as ending up with a 4Mb SIMM that you can't use. On the other hand only a very few people will be able to afford expansions much bigger, so they probably won't mind.



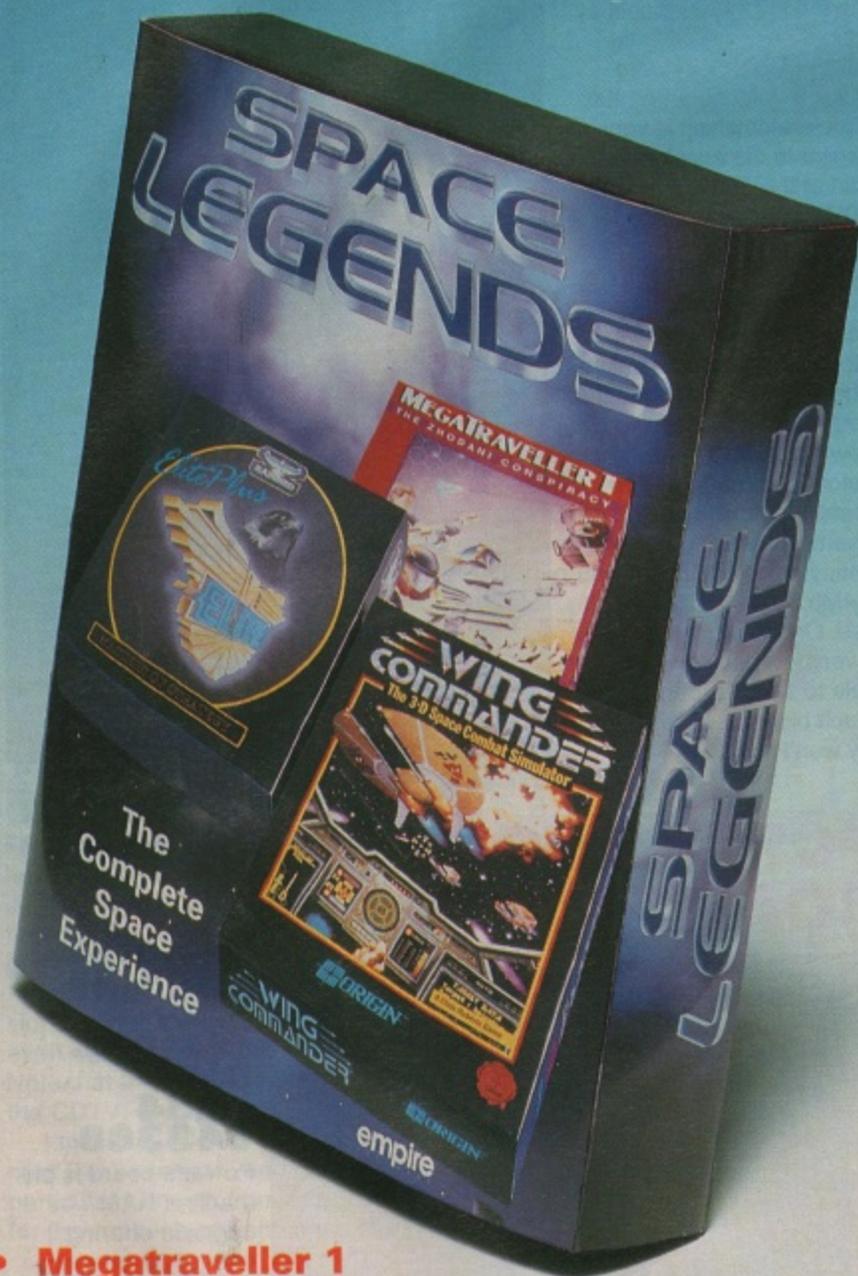
## PC1 204 FOUR MEG BOARD FOR THE A1200

£185.95-  
£333.95 •  
POWER  
COMPUT-  
ING •  
0234  
843388

Power's board is primarily a RAM upgrade offering 4Mb of 32-bit memory. However, it also comes with space for a maths co-processor which will speed up any floating point maths that your Amiga has to do. In all honesty, most people don't do enough of this kind of work to justify the maths chip, but if you have a penchant for ray tracing, fractal rendering or perhaps a very large spreadsheet, then this is a good option as it allows you to add a co-pro rated at up to 50MHz.



# Three of the most exceptional Space Simulations ever!



- **Megatraveller 1**

"There can't be a more prestigious role-playing system than Megatraveller 1".

PC Plus

- **Elite Plus**

"Quite simply the most original gameplay since the birth of computer entertainment. An all time classic".

PC Format

- **Wing Commander**

"This is more than ever an essential addition to any self-respecting PC gamer's collection".

PC Review

**The Complete Space Experience  
for IBM PC and Amiga**

\*Elite on Amiga versions

**ELECTRONIC ARTS**

**MICROPROSE**

**ORIGIN**

**empire**  
SOFTWARE

Empire Software, The Spires, 677 High Road, North Finchley, London N12 0DA.  
Telephone: 081-343 9143

Empire Software is a registered trademark of Entertainment International (UK) Ltd.

This product must not be used to infringe copyright.

NEW VERSION  
V10.35. PHONE  
FOR UPGRADE  
DETAILS

# X-COPY PRO

**X-Copy Pro is the most powerful disc copier available for the Amiga, BUT DON'T TAKE OUR WORD FOR IT...**

**"it's unbeatable..." 80%**

CU Amiga Magazine, July 1993

Includes the new CYCLONE cartridge for copying protected software

Unlike other disc copiers, X-COPY PRO is totally automatic and extremely simple to use. It is fully compatible with all AMIGA computers

- Will copy virtually any disc onto another disc.
- Full hard disc backup.
- File management facility.
- Optimises, formats, repairs, verifies.
- Includes the 'AUTOSWITCH' CYCLONE cartridge.

Simply plugs into the external disc drive socket at the rear of the Amiga, and plug your external disc drive into the back of the CYCLONE cartridge for unbeatable disc copying power. An external disc drive is required for use with the CYCLONE cartridge. These are available from us priced £54.99

**FULL MONEY BACK GUARANTEE**  
**If you can find a more powerful disc backup utility, we will give you your money back**

**HOW TO ORDER:- Telephone 061 724 7572 with your credit card details or send a cheque or postal order for £40.99 made payable to Siren Software, Wilton House, Bury Road, Radcliff, Manchester M26 9UR**

**A1200 4MB  
MEMORY  
UPGRADE  
& CLOCK  
£159.99**

32 bit zero wait state fastram. Simple trapdoor installation. Doubles the speed of the A1200. Built in battery backed clock.



# A1500/2000 ACCELERATORS

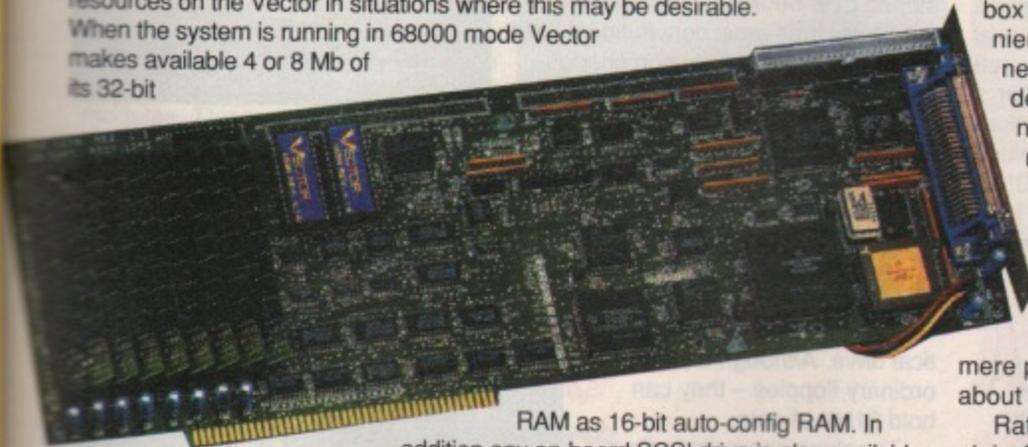
## IVS VECTOR 2000

£449.95 • MICROPACE • 0753 551888

The card supplied for review was fitted with a Motorola 68EC030 processor and 68882 Floating Point Unit both clocked at 25Mhz, although 33Mhz and 40 Mhz options exist as well. Additionally the board can be bought with a full 68030 processor which includes the Memory Management Unit, very useful for development purposes. It is possible to use the newer 4Mb x 8 Simm chips to achieve a total on board memory capacity of 32Mb. The Vector is also equipped with internal and external SCSI connectors connected in parallel allowing the attachment of a hard disk internally and an additional device to the 50 pin Centronics external connector. Vector checks every two seconds for the presence of removable media (e.g. tape streamers) and so the 'disk change' is not necessary to detect these.

The very unique feature of the Vector is something IVS call PROPLEX – short for PROcessor multiPLEXing. This allows the native 68000 to access the resources on the Vector in situations where this may be desirable.

When the system is running in 68000 mode Vector makes available 4 or 8 Mb of its 32-bit



RAM as 16-bit auto-config RAM. In

addition any on-board SCSI drive is also available to the system in 68000 mode. With other accelerators, if the user chooses to use 68000 mode then access to the card is lost with both RAM and any attached device being invisible to the system. The choice of which mode to use is taken at boot time by holding down the right mouse button and selecting desired operational parameters from a boot screen. The 2000 will continue to operate in this mode even after soft reset. If you want to change to the other available mode then simply repeat the procedure – simple and very well implemented.

Performance in general was faultless with the accelerator providing on average a six to sevenfold increase in speed over a Fast RAM equipped 2000. Single-page documents in *Professional Page* printed in just over a minute where normally this would take between four and five.

As well as the significant increase in system speed hard drive performance has also improved by a factor of two, yielding just over 1Mb/sec. Writing this review using *Protext* showed just how fast the system has become, word counts and spell checking have become blindingly fast. In over a week of heavy usage the stability of the system is not in question.

One problem did, however, cause concern. All attempts to use a recoverable RAM drive in 68030 mode have met with failure although in 68000 they worked as normal. Commodore's Rad, ASDG's RRD and Richard Wasp's StatRam all failed to preserve their contents after a soft reset.

If the card was £150-200 cheaper then I for one would seriously consider adding one to my Amiga 1500.

## ACCELERATORS

No computer is too fast and to be honest, you're a very lucky user if you think that yours is fast enough. No sooner have we all got used to our software going just quickly enough, when along comes a whole new batch requiring another teensy increase. It's a never-ending battle between hardware and software, with the specifications getting better and better.

Measuring the speed of an Amiga is a tricky business, as so much depends on the unique custom chips. For example, no matter what Amiga an arcade runs on, the video circuitry will be locked to a certain frequency and so there will be no noticeable increase in speed – *Project-X* runs the same on the A600 as it does on the A4000. (Note: some games, notably 3D simulations, will show an improvement). When it comes to

sheer number-crunching the improvement is a more than a little obvious. You'll hear a lot about 'MIPS' or 'millions of instructions per second', and obviously the higher the MIPS rating the better. To put it all into perspective, an Amiga 600 rates less than one MIP, an A1200 about 1.5, an A4000/30 about 8 and an A4000/40 about 20 – a top-of-the-range Amiga 4000 can process data more than 20 times faster than an A600. The main reason for the speed difference is the choice of micro-processor unit (MPU) at the heart of the Amiga. All Amigas are based around the Motorola 68x00 family: the A600 uses the lowly 68000, A1200 the 68020 and A4000s the 68030s and 68040s. As the technology used in the manufacture of micro-processors improves, the chips have become faster and faster.

The forthcoming 68060 is rumoured to run at an awesome 100 MIPS – which only a

## ICD ADSPEED

£119 • POWER COMPUTING • 0234 843388

The idea of an accelerator appeals to almost everybody. At CU Towers we have an Amiga 4000/040 which takes regular beatings from an irate Tech Ed., shouting something about it being lazy and good for nothing. You can never have too much speed.

The AdSpeed is a high-compatibility plug-in module which should work on all 68000 based Amigas – the A500/ 500+/ A600/ A15000/ A2000 machines. Essentially the device plugs into the CPU socket on the Amiga motherboard, but getting at this can be tricky. On the keyboard-style machines this can be a chore – you have to take virtually the entire machine apart to get at the slot. This, not unnaturally, will completely invalidate any warranty you may have been fostering up to this point. Installation on the box machines is not much easier. The CPU socket is located inconveniently on the right-hand side of the motherboard and it may be necessary to remove the drive bays and the PSU in order to perform the delicate operation properly. Removing a massive 64-pin DIP package is not an easy task – well, not without breaking it anyway. A special chip-remover tool is recommended if you have a shaky hand.

The result of all this work is a hardly nimble 14Mhz processor, a clock speed of twice that of the original processor. It does also provide a 16k data cache, which will make some impact on operational speed. The results, however, speak for themselves. Doubling the speed of the processor won't double the speed of your machine. At best we have seen a 15-20 per cent increase, which is not bad for a mere processor replacement, but which you will easily fail to notice after about two days of use. It is cheap though.

Rating 686 dhrystones on SysInfo, apparently 17 per cent faster than a plain A500



few years ago would have classed it as a super computer. The speed at which a processor runs is also important, but it can be misleading. A 50Mhz 68030 (one which works internally at 50 million operations per second) is twice as fast as a 25Mhz 68030, but not as fast as a 25Mhz 68040...

A further way to boost performance is to fit a maths co-processor (also known as a Floating Point Unit or FPU). Normally an MPU such as a 68030 isn't able to directly manipulate floating point (non-integer) numbers, relying instead on external software. The FPU is capable of dealing with these numbers and because the code is built into the chip itself, it can do it very quickly.

Adding a Motorola 68881 or 68882 FPU to an MPU can speed up the maths operations in a ray-tracing program by at least 50 per cent. When the software has been spe-

cially written to make use of the FPU, the speed-up can be even greater. FPUs are clocked independently of the CPU, so it is quite possible to have a 50Mhz FPU running alongside a 25Mhz MPU. To improve choice, Motorola have made several 'budget' versions of their chips: the 68030EC is the same as the 68030 but lacking a Memory Management Unit (useful for virtual memory systems and program debugging), and the 68040EC also lacks the integral FPU which is present in full 68040s.

Whether or not you'd benefit from buying an accelerator depends on what you use your Amiga for. If you use a lot of graphics software, code compilers, sound sample manipulation programs or DTP packages the speed-up can be staggering. In situations where time is money, an accelerator will pay for itself.

# » HARD DRIVES

**W**hilst extra memory increases the temporary storage capacity of your Amiga, a hard drive increases its long-term storage capacity. Hard disk drives have two distinct advantages over floppy drives: speed and capacity. A normal low-density Amiga floppy disk holds 880K, compared to current hard disks which can hold thousands of megabytes. Hard disks can also read and write data at up to 60 times the speed of a floppy. Unlike Amiga floppy drives, the speeds and capacities of hard drives are constantly rising.

A common misconception is that a 60Mb hard drive will give you 60Mb of RAM. The Mb rating of a hard drive refers to the storage capacity of the disk. Just to complicate things, most external hard drives can accommodate extra RAM. This is always Fast RAM, as Chip RAM cannot be accessed via the DMA port used by the drives. If you can't afford, or simply don't need any extra RAM when you buy the drive, you can add RAM at a later date. It's usually just a matter of removing the case and slotting in the chips, although you need to make sure you buy the right type of RAM.

We've stretched the heading of hard drives to include a number of other mass-storage devices.

## A500 DRIVES

### ALPHA POWER 65

£299 • GOLDEN IMAGE •  
081 365 1102

Before you can have any fun with the Alpha Power, you need to install it. It comes pre-formatted, but completely empty. The installation software is far from easy to use. After you've run through the procedure, the drive still isn't usable. Vital commands are missing from the C directory among others, which makes it impossible for you to complete the installation yourself if you boot from the hard disk. You end up having to do it all manually, booting from your floppy Workbench once again.

IDE drives usually aren't that fast, but this performs surprisingly well, clocking in at 593K per second when run through SysInfo. Even so, when it comes to reading directories, it lags behind other drives, such as the Reference 100.

As for RAM, it can hold up to 8Mb of ZIP chips. To fully populate the board, you'll need to remove the mechanism from the drive, but this shouldn't be a problem as long as you're careful with it (hard disks don't like to be knocked about). The supporting software has a RAM test option, and let's you do a low-level format and re-partition the drive.

Although there's no through port at the rear, there's provision inside the case to add another 2.5" IDE mechanism. This could double your storage capacity in one fiddly move. Apart from the poor installation software, the Alpha Power is an impressive drive, both large enough and fast enough to satisfy the needs of most, with the added security of a sturdy steel housing.



### GVP HD8+

£499 • 120MB UNPOPULATED • SILICA SYSTEMS • 081 309 1111

The HD8 comes in capacities ranging from 42 to 120Mb, and uses fast Maxtor or Quantum drive mechanisms. Although it's supplied unpopulated, it has space for up to 8Mb of 16-bit RAM and you can even plug in a PC emulator for only £100.

The drive is styled to match exactly the A500 and it plugs into the computer's side expansion slot. A game switch lets you turn the drive off if any games object to it. I can definitely say that this is still the best choice for those on a budget.

## COMMODORE A570 CD ROM DRIVE

£149.99 • SILICA SYSTEMS •  
081 309 1111 • (1MB CHIP RAM REQUIRED)

This is Commodore's offering for people who wanted to join the CD-ROM revolution as heralded by the CDTV. The A570 can now be picked up for the give away price of £149.99, which must surely make it the cheapest CD ROM drive in the world.

It plugs into the side of the A500 (with Kickstart 1.3 or higher) just like a hard drive. However, it doesn't let you write to disks but you can read from CD ROM disks, which are capable of storing over 600Mb of data. Although far slower than most conventional hard drives, its vast capacity and changeable disks more than make up for it.



## 21 MB FLOPTICAL DRIVE

£289-£389 • POWER COMPUTING •  
0234 843388

Probably the most exciting new drive technology is to be found in Power's floptical drive. Although it uses three and a half inch floppy disks, these are no ordinary floppies – they can hold 21Mb of data.

The drive connects to your computer via a SCSI interface and comes in two varieties – an internal unit for the A2000 and an external for the A500 or whatever. Needless to say, the SCSI interface is not supplied so owners of a computer other than the 2000 will need to buy an interface, or own a suitable SCSI drive already (such as the GVP HD8 or A530 Turbo).

With a data transfer speed of 109,060 bytes per second the drive is significantly slower than a hard drive as it doesn't use high-speed rigid disks, but the bonus of being able to change disks more than compensates. Well worth a look and very fairly priced.



## GVP A530 TURBO

£699 • 120 MB • SILICA SYSTEMS • 081 309 1111

The A530 Turbo uses the same mechanisms as the HD8+, but includes a 68EC030 accelerator and supports 32-bit RAM (which is much faster than the HD8's 16-bit variety).

Data transfer speeds of 987,979 bytes per second make this one of the nippiest drives in town!

It's even more user friendly thanks to its 'intelligent' on/off switch that automatically activates the drive when you turn the computer on.

For A500 owners this is the creme de la creme.



**TRUMPCARD 500 AT****£277.28 • MICROPACE • 0753 551 888**

Another IDE drive, the Trump Card 500 AT has a rather flat, wide appearance, but still blends in with the Amiga quite well. The plastic case should suffice for most setups, but obviously won't offer as much protection as a steel one. It comes pre-installed with Workbench 1.3, so all you need to do is plug it in and switch on. All the Workbench files are put in their own partition, leaving the rest of the drive free for all your own software.

With 120Mb, it's one of the bigger drives, and there's enough room on the disk to meet the demands of most applications. Its access rate of around 620k per second is not particularly fast. It can hold 2, 4 or 8 Mb of RAM, and takes standard SIMM modules. The supporting software, supplied on floppy and on the hard drive, has all the usual memory testers and disk formatters, should you need to re-partition or format the drive. There are no through ports.

Compared to some other drives, the Trump Card is a breeze to use. Coming pre-installed, it's a good option for anyone who doesn't want to get their hands dirty in the Shell. It performs well, without any fuss.

**REFERENCE 100****£329 • EVESHAM MICROS • 0386 765500**

The drive comes pre-formatted, but uninstalled. Installing it yourself is easy enough – just a matter of booting with your Workbench and entering a line in the Shell from the instruction book. This copies your Workbench across, and the drive is ready to use.

As the name suggests, it's got a 100Mb capacity. It uses a SCSI interface, and even though the data exchange rate of 424K per second is below that of the IDE drives here, it's actually faster in many practical applications. On the RAM side, it can take up to 4Mb of SIMMs. The supporting software is pretty comprehensive, filling three disks with RAM testers and disk utilities. Cased in a sleek steel box, it should be able to withstand a few knocks. An external power supply is included as standard. Further expansion is made available via the SCSI through port at the rear. Also on the back panel, you'll find a 'game switch'. This disables the drive to save you having to disconnect it when playing incompatible games. Additional dip switches allow you to toggle the auto-booting, the RAM and the hard disk.

The Reference 100 gives the impression of being a quality product. It's fast, well-built, and comes with some decent software. Certainly one of the best all-rounders.

**COMMODORE A590****£179 • 20 MB • SILICA SYSTEMS • 081 309 1111**

A paltry 20Mb are all that's on offer with the storage capacity. The access time is 150K per second, which is a fair bit slower than the competition. On the good side, it comes pre-installed with Workbench and Extras, so there's no faffing around before you can use it. Other hard disk utilities are included. The drive uses an XT system, but there's a SCSI through port for further expansion. Up to 2Mb of CMOS DRAMs can be installed inside the unit. An external power supply comes with it. The A590 looks dated now, with small capacities for both RAM and disk space, and a slow access speed, too but it does AutoConfig properly and is guaranteed compatible.

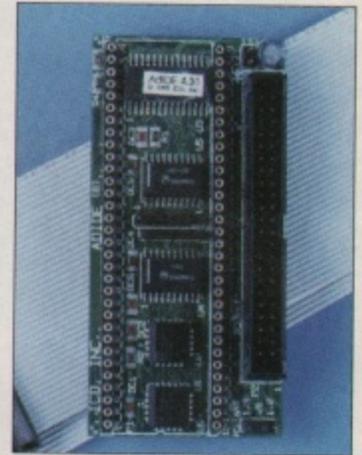
**ICD ADIDE 2****£70 • POWER COMPUTING • 0234 843388**

If you are looking for a cheap solution to your ever-growing storage problems then it may be worth considering an IDE interface. Possibly the most minimalist of these is the AdIDE board from ICD. Of course if you have a 600 or a 1200 you already have an IDE interface, and if you have a 1500 it is better to get a Zorro card instead. The main beneficiaries of this system will be owners of the now defunct A500 and A500+.

The AdIDE is another one of those disturbing interfaces which plugs into the processor slot. Not only does this entail a lot of work with pliers and screwdriver, but it also means that your chances of having anyone fix your machine under warranty are long gone (mind you, you're in trouble these days even if you do have a warranty).

The plus side of all this is that on the 500s you could get hold of one of those nice 2.5 or 3.5 inch IDE drives and mount it inside the case. Power could be a problem though. The drives themselves are cheap, but as with all IDE interfaces, a hard disk is about all you can add.

If you aren't afraid to rip the heart out of your machine and you trust yourself to plug in the board the right way up, this could be an ideal solution for financially restricted owners of A500s and A500+s.

**A1500/2000 DRIVES****ICD TRIFECTA 2000****£139 • BARE INTERFACE • POWER COMPUTING • 0234 843344**

ICD have certainly been very busy recently, and if this hardcard is anything to go by they haven't been wasting their time. Using the latest manufacturing methods, the Trifecta 2000 packs every possible feature short of an accelerator onto one Zorro card. Available in EC and LX versions, both models support up to 8Mb of ZIP-based Fast RAM, and fitting memory here will actually speed up any drives controlled from the card by providing some cache space.

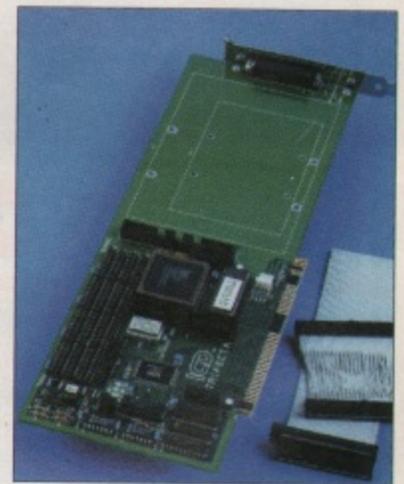
The availability and price of IDE drive mechanisms means the Amiga can benefit from the PC world, and the Trifecta allows up to two low-cost IDE drives to be added. One can be bolted to the card, but the other will need to find a home in a nearby bay.

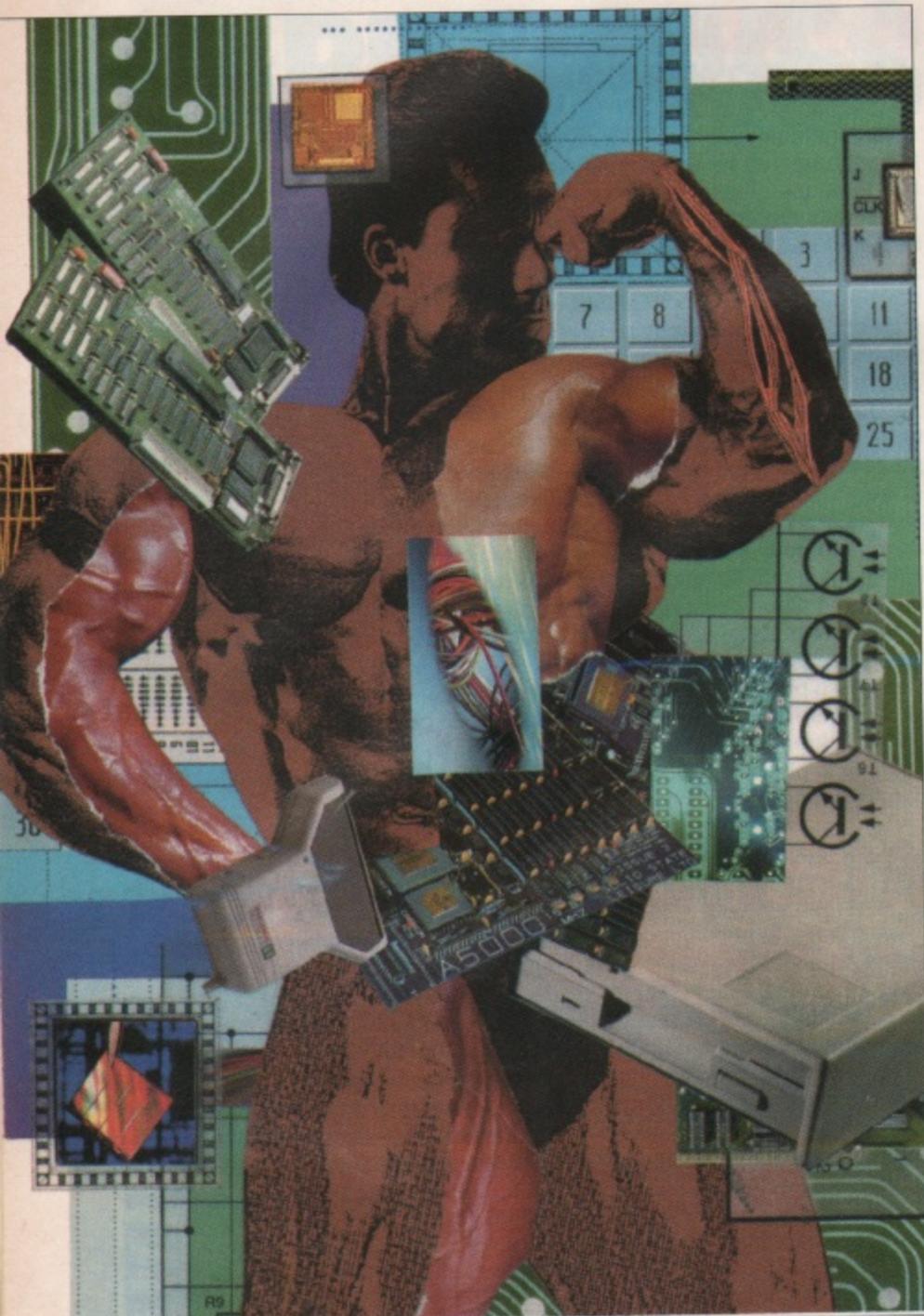
The IDE interface is very fast (faster than the A4000's), and clocked in at a cool 1,041,631 bytes per second on an 68030 based Amiga. The only reason for choosing between the EC and LX cards (apart from the price) is whether or not IDE isn't enough, and you also need a fast SCSI2 interface. If you opt for the LX version with its SCSI2 option – or you upgrade the EC up to LX standard – you open the door to all sorts of weird and wonderful peripherals.

Apart from rather ordinary SCSI hard drives, you can add floptical drives, optical drives, magneto-optical drives and any other drives ending in -optical that are likely to be developed. When funds permit, you could even add a SCSI2 compatible device for some theoretically blistering speeds – although it has to be said that the only drive we could test the Trifecta with was a rather old SCSI Quantum which returned a poor 920,880 bytes per second (actually slower than the IDE).

Installing the card is simple, as it slots directly into the nearest Zorro slot. The biggest problem has to be where you are going to fit all the possible hard drives – two IDEs and a SCSI inside, and six other SCSI drives chained onto the outside connector could provide about 8Gigabytes of storage if you have the cash, the desk space and the inclination.

The good range of set-up software includes support for the rather idiosyncratic AdSpeed accelerator (also from ICD) as well as drivers for AMAX and Cross-DOS PC partitions. The Trifecta has got to be the ultimate in hard cards – featuring memory expansion facilities and a dual IDE interface is good enough for the price, but the option of a fast SCSI2 interface makes it the best bargain A2000/A1500 owners are likely to see for some time.





## ALFADATA AT-BUS 2008

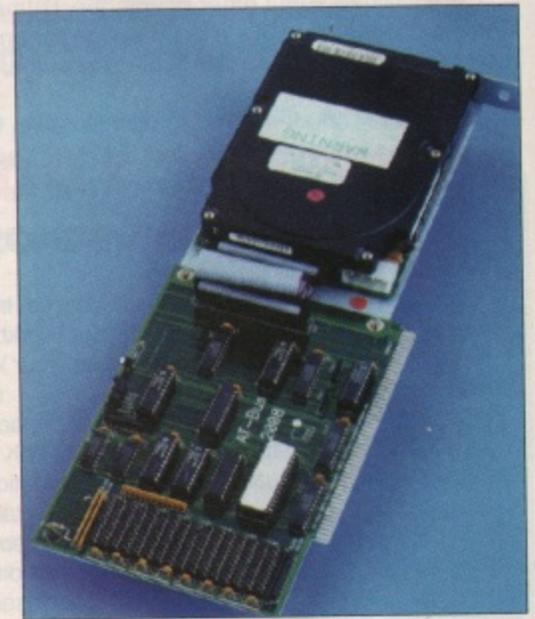
£199 • GOLDEN IMAGE •  
081 365 1102

When I first saw the AT-Bus I thought there had been a mistake and someone had sent me a PC card by mistake. But no, there in tiny white print on the rather stark circuit board was the label 'Zorro II', so there was no doubt this was an Amiga card – who else but Commodore would name an interface standard after a mythical swordsman? The AT-Bus 2008 is produced in Germany by a company called BSC, and judging from the name on the the supplied disk of programs and development notes (ALF2) it seems to have evolved from the original ALF (Amiga Loads Faster – groan) interface which has been skulking around in the shadow of GVP for quite some time.

Fitting the card was a trifle tricky, and in the end a pair of pliers had to be taken to the blanking panel in order to convince it to locate in the slot properly. Thankfully, once in place the computer fired-up as normal, and after wading through the rather stilted pseudo-English installation program everything worked fine – another icon to play with on the Workbench. Although an IDE mechanism at heart (IDE is the PC standard, hence the 'AT-Bus' name), ALF works by emulating a SCSI interface.

It's all rather confusing, but thankfully it works perfectly. In fact, Commodore use the same principle to add IDE drives to their machines. The choice of an IDE mechanism might seem disappointing when everyone else seems to be raving about SCSI, but there are several distinct advantages to going the PC route. Firstly, IDE drive mechanisms are a great deal cheaper than their SCSI counterparts, and secondly any IDE drives you buy can be added to an AGA Amiga if you upgrade at a later date. The version of the AT-Bus we reviewed came with a 40Mb 3.5 inch Seagate IDE drive bolted to it, which turned in a very respectable access rate of 1,010,835 bytes per second on an 68030 based Amiga.

Although nothing like the quoted 10Mb/second speeds of mythical SCSI2 devices, ALF has certainly fast enough for day to day use. The bonus feature of up to 8Mb of ZIPS makes this an ideal card for both experienced users needing some extra room, and the beginner looking for a first hard drive.



## HOW THEY COMPARE

Model	Alpha Power 65	Trump card 500AT	Reference 100	A590	A530 TURBO
Manufacturer	Alpha Data	IVS	Evesham Micros	Commodore	GVP
Size	65 Mb	120 Mb	100 Mb	20 Mb	120Mb
* Speed	593K per sec	618K per sec	410K per sec	150K per sec	988K per sec
System	IDE	IDE	SCSI	XT	SCSI
Ease of installation	Poor	Pre-installed	Average	Pre-installed	Pre-installed
Supporting software	Average	Average	Good	Good	Excellent
Max RAM	8 Mb (ZIPS)	8 Mb (SIMMs)	4 Mb (SIMMs)	2 Mb (CMOS DRAMS)	8 Mb (32-bit SIMMS)
Through ports	Internal 2nd IDE	None	SCSI	SCSI/XT	Mini slot and SCSI Interface
External power	Optional	Optional	Supplied	Supplied	Supplied

Model	21MB FLOPTICAL	A570	Trifecta 2000	AT BUS 2008
Manufacturer	Power Computing	Commodore	ICD	Alfadata
Size	21Mb removable disks	600Mb+ (readable only)	N/A	N/A
* Speed	109K per sec	156K per second	1042 to 5526K per second	1011K per sec
System	SCSI - needs interface	Proprietary interface	SCSI2 & IDE	IDE
Ease of installation	Easy if you get all the bits!	N/A	Easy	Hard
Supporting software	Poor	N/A	Good	Medium
Max RAM	None	2Mb (CMOS)	8 Mb (Zips)	8 Mb (ZIPS)
Through ports	SCSI	Audio through ports	SCSI2	None
External power	Supplied	Supplied	N/A	N/A

\* Speeds according to SysInfo 3.11

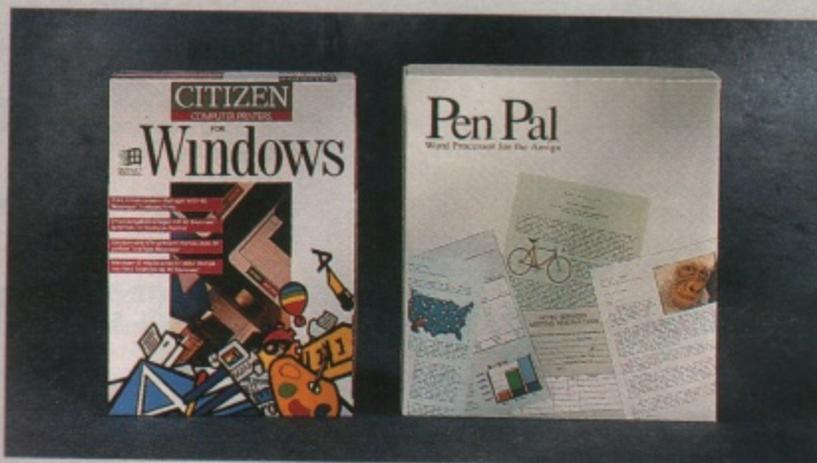
# YOU WON'T FIND A BETTER PACKAGE DEAL THIS SUMMER.



## FREE SOFTWARE WORTH UP TO £49.95\* WITH THE SWIFT 240/240C.

It's the perfect cure for those summertime blues. Buy a Swift 240 or 240C printer and we'll throw in a choice of great software, absolutely free. So you

not only get an incredibly quiet colour printer but also the software to get the best out of it. You can choose either Pen Pal<sup>®</sup>, the WP and database package for Amiga users,



or the Citizen Print Enhancement for Windows including 40 Bitstream TrueType fonts. If you're looking for a printer package this summer make a Citizen

**CITIZEN**  
COMPUTER PRINTERS

ALWAYS A GOOD IDEA

dealer your first destination. To find your local dealer call 0800 525 105. In Eire call 01 567 911.

UK and Eire only. Offer closes 30th September 1993. Claims must be received on or before 14th October 1993. Only at participating dealers. While stocks last. All trademarks acknowledged. \*RRP £49.95 (inc VAT). 'Pen Pal runs with 1Mb RAM or more. Not supplied in box shown. This offer is only available direct from Citizen Europe Ltd. To claim your free software you must complete and return an official claim form.

CALLERS WELCOME AT OUR BRANCHES OPEN 9-5.30, MONDAY TO SATURDAY, (10-4.30 SUNDAYS ST ALBANS ONLY)

### WARNING

Due to the exchange rate, many items in this ad may increase in price - including some CBM + HP product. At the time of going to press we are unable to confirm the extent or date of the increases, therefore, all prices must be confirmed by telephone before ordering.

### OLD AMIGA TRADE-IN

The best trade-in allowance, extra for peripherals and accessories. Trade in your old machine for a brand new A600/ A1500/1200/3000/4000/CDTV or even PC.

A limited number of refurbished A500/1500/3000s are available, complete with 3 months warranty.

**A500s FROM £149**  
**A1500s FROM £249**

A600 1MB	169	1500 HD+Controllers	
A600 20HD	(mint) 279	40MB	FROM 199
A3000s	FROM 699	120MB	FROM 379
CDTV	FROM 199	Action Replay	39
A590 20/40MB	129/159	XT B Board	79
Flicker Fixer 1500	79	AT B Board	149

OTHER ACCESSORIES - PLEASE ASK.

## AMIGA 500+ £179.99

LIMITED NUMBER AVAILABLE - PHONE!

TRADE IN AVAILABLE

## AMIGA 3000

12 MONTH ON-SITE MAINTENANCE WITH FREE AMIGA VISION

NEW PRICES!	52MB	120MB
1MB video + 1MB Fast Ram	999	1149
2MB video + 4MB Fast Ram	1149	1299
With extra 4MB Fast RAM (fitted if required)		ADD £169.99
With Philips SVGA 28dpi inc. tilt & swivel		ADD £309.00

WITH FREE DPOINT AGA OR WORDSWORTH AGA

## AMIGA 4000/30

NEW MID RANGE AGA AMIGA

AGA Chip Set + 68030 processor, 68882 25/50 MHz co-processor option, 256,000 colours from 16.6M, scan doubling for flicker free display, Mouse, Amiga 3.5"/1.76 MB 3.5" drive, Hard Drive as below, Amiga DOS 3.0 system and utilities, Gold Service on-site warranty

68030	68882	2 + 2MB STANDARD VERSIONS	2 + 4MB SUPER EXPANDABLE VERSIONS
80MB HD	-	1079.99	1179.99
80MB HD	25MHz	1199.99	1299.99
120MB HD	-	1199.99	1299.99
120MB HD	25MHz	1319.99	1419.99
120MB HD	50MHz	1449.99	1549.99
160MB HD	-	1279.99	1379.99
240MB HD	-	1349.99	1499.99

With CBM 1960 multi sync colour monitor inc tilt and swivel (see also new 1942).....ADD £349  
Per extra 2MB fitted to standard machine.....ADD £89  
Per extra 4MB fitted to super exp. machine.....ADD £159

### NO OTHER DEALER CAN BEAT OUR CREDENTIALS

- Multi-million company with 9 years experience in Commodore product and here to stay
- Commodore trained staff are friendly and helpful and are parents, multimedia, educational, games, programming or technical specialists (usually more than one!)
- Open 9-6 pm Monday to Saturday and 10.00 am to 4.30 pm Sundays (St Albans only) for convenient shopping.
- Callers welcome for advice and demonstration at our 1600+ sq ft High St, Town Centre branches
- Same day despatch for most orders received by 5.30 pm; express am and Saturday services available
- Hardware carefully handled and delivered safely and reliably by caged, insured, top name courier service
- Pre-despatch testing on Amiga systems
- Free 30 day, next day courier collection and delivery of NEW replacement (except product with on-site maintenance)
- Hotline support and in-house engineers
- Upgrade and trade in offers to keep you up to date
- Exceptional after sales service
- BFPD and export welcome

### NOT JUST ANOTHER MAIL ORDER COMPANY

For years a major player in Amiga Mail Order, Hobbyte also boast extensive expertise and experience in specification and support of multi-machine and specialist systems. Hobbyte have been recommended and trained by Commodore and successfully won major orders and support contracts from London Boroughs, MOD, educational establishments etc. We are pleased to be placed on tender lists. This expertise is available to all our customers.

# Hobbyte

COMPUTING ESTABLISHED 8 YEARS

10 MARKET PLACE ST ALBANS  
HERTS AL3 5DG TEL: (0727) 856005/841396  
THE GALLERY ARNDALE CENTRE LUTON  
BEDS LU1 2PG TEL: (0582) 457195/411281

## AMIGA 600

A600, SD & HD versions with 12 month on-site warranty, 1MB, WB 2.05, 3.5" FD + Smart Card Interface Mouse and Manuals

A600 ALONE	184.99	FREE PUBLISHER'S CHOICE RRP £99.99 inc.
A600 20MB HD	299.99	Kindwords - WVP, Pagesetter - DTP, Artists Choice - Art Pack, Headline Font Pack
A600 40MB HD	329.99	OR
A600 85MB*	429.99	4 FREE 'Hot List' games, mouse mat + joystick
2MB VERSION ADD	£25	Limited - While Stocks Last

\*85MB version with top quality 3rd party drives, install disc + full 12 months return to base warranty with FREE collection.

NEW CBM 1084ST WITH TILT & SWIVEL STAND + LEADS £179.99 WITH ANY COMPUTER

NEW PRICES

NOW IN STOCK!

## CD AMIGA CONSOLE

FIRST SHIPMENT AVAILABLE AUGUST

## NEW 1940+1942 AGA MONITORS

1940 - dual sync, 14", 0.39mm dot pitch (approx 8833/1084 equivalent) with speakers, for 1200/4000 **£274.99**  
1942 - dualsync, 14", 0.28mm dot pitch (approx 1960 equivalent) with speakers, for 1200/4000 **£374.99**

PHONE HOBBYTE FOR LATEST DETAILS

### NEW PRICES

## AMIGA 4000/40

New AGA Chip Set + blistering 68040 processor, 256,000 colours from 16.6M, scan doubling for flicker free display, 25 MHz, Mouse, Amiga 3.5"/1.76 MB 3.5" drive Plus Cross DOS for transfer of files between Amiga DOS +MS DOS, 2 rear + 2 front 3.5" bays, 1x 5.25" bay, Hard Drive as below, Amiga DOS 3.0 system and utilities, Gold Service Warranty

68040	ALONE	2 + 4MB	£1989
120MB HD	2 + 4MB		£2139
120MB HD	2 + 8MB		£2219
160MB HD	2 + 8MB		£2289
240MB HD	2 + 8MB		£2289

NO DEPOSIT CREDIT available subject to status, APR 29.8%

With CBM 1960 multi sync colour monitor inc tilt and swivel (see also new 1942).....ADD £349  
Per extra 4MB fitted.....ADD £159  
**4000/40T INC. SCSI - COMING SOON!**

## AGA GG PACK (GRAPHICS + GAMES) FOR A1200, 4000 ETC.

- Personal Paint AGA - Top reviews, impressive DP IV clone with additional features inc. image processing, paints in any screen mode **69.99**
  - Your choice of - Zool (1200 only) or Sleepwalker or Tralls **34.99**
  - 5 'Hot List' games (AGA compatible) individually boxed **174.95**
  - Microswitched Joystick **9.99**
  - Mouse Mat + Dust Cover **9.98**
  - 10 Blank Discs + 80 capacity lockable disc box **16.98**
  - Virus Killer **4.99**
- TOTAL VALUE 321.87**  
**WITH AMIGA/CDTV SEPARATELY 89.99**  
**109.99**

## STARTER PACK

- Microswitched Joystick **9.99**
  - 80 cap. lockable disc box PLUS 10 blank discs **16.98**
  - 4 great boxed games - See HOT LIST **159.96**
  - Phone for current choice OR DPaint III +700 Clip Art Pics/graphics **9.98**
  - Mouse Mat and Dust Cover **9.98**
  - 16 Days Free Hotel Accommodation in UK, Ireland or France - you pay only for meals
- TOTAL VALUE 196.91**  
**WITH AMIGA/CDTV SEPARATELY 29.99**

### HOW TO USE THIS AD

For the first time ever, you can choose your own Amiga and software combination, and still benefit from the huge savings only available from package deals. Want an A500 with 1500 software? No problem! Like an A1500 without games? It's up to you!

**WE WANT TO BEAT ALL PRICES! CALL US!!**

## AMIGA 1200

FREE SLEEP WALKER + £10 DONATION TO COMIC RELIEF (WHILE STOCKS LAST)

1200 2MB SD	364	1200 2MB +80MB HD	*575	**589
1200 2MB +20MB HD	*495	1200 2MB +120MB HD	*639	**669
1200 2MB +60MB HD	*529	1200 2MB +207MB HD	*POA	**895

SEE NEW AGA GG PACK BELOW

\*1200 SD fitted with top quality 3rd party drives, install disc + full 12 months return to base warranty with FREE collection.

\*\*CBM APPROVED HARD DRIVES  
1200s with hard drives marked \*\* include CBM approved drives fitted by CBM approved engineers, full legal installation/utility disc and documentation and come with CBM on-site warranty service. Extra 4MB + clock fitted to above.....ADD £180

## CDTV

1MB, with Disc Caddy, Welcome CD + tutorial + remote control unit.  
ALONE WITH MATCHING DRIVE KEYBOARD, MOUSE + WB 1.3

As above **£249\*** **£294\*\***  
With Megachip 1MB upgrade plus Super Agnus **£157.99 extra**  
\* Plus Hutchinsons Encyclopaedia + Lemmings \*\*plus FredFish CD

See below/across for software packs

NEW PRICES!

### WITH ANY COMPUTER

ZOOL, STRIKER, PINBALL DREAMS & TRANSWRITE OR LEMMINGS, SIMPSONS, CAPTAIN PLANET, DP III & GFA BASIC  
**ADD £19.99**

## THE HOTTEST LOT PACK

- All as Starter Pack **203.90**
  - PLUS:
  - Another 10 GREAT individually packaged games, BETTER THAN THE REST previous RRP's up to 39.99 each, phone to choose from HOT LIST, or leave it to us! Children's games available. **269.82**
  - 80 Prog. Hobbyte PD Greats Pack II - Includes top games like Battlecars, Star Trek, Computer Conflict, Megaball, dozens of arcade classics, board classics and 'shoot-em-ups', DPaint clip art, Utilities, Word Processor, Spreadsheet, Database + Desktop Publisher and the ultimate virus killers - a must for every new Amiga owner! **39.99**
- TOTAL VALUE 513.71**  
**WITH AMIGA SEPARATELY 49.99**  
**69.99**  
SPECIAL: ALSO 10 extra 'Hot List' games **ADD 25.00**

## WWW EXTRA PACK

- WWW games: Silly Putty **25.99**
  - Formula 1 Grand Prix **25.99**
  - Pushover **25.99**
  - DPoint III with animation **79.99**
  - 700 clip art pics/graphics for DPoint III **9.99**
  - 3 disc Home Pack incl. W Processor, Dbase, Spreadsheet **9.99**
  - Virus Killer **4.99**
- TOTAL VALUE 182.93**  
**WITH AMIGA/CDTV SEPARATELY 24.99**  
**49.99**

## EPIC PACK EXTRA

- Epic Pack: Needs 1MB and Hard Drive **VALUE/RRP**
  - Trivial Pursuit, language Lab, Amiga text **29.99**
  - Epic, Rome, Myth **77.97**
  - DPoint III with animation **79.99**
  - 700 clip art pics/graphics for DPoint III **9.99**
  - 3 disc Home Pack incl. W Processor, Dbase, Spreadsheet **9.99**
  - Virus Killer **4.99**
- \* SPECIAL THIS MONTH with Amiga CD/TV  
**TOTAL VALUE 212.92**  
**WITH AMIGA/CDTV SEPARATELY 29.99**  
**14.99\***  
**39.99**

**NO CREDIT CARD SURCHARGES**  
**No deposit credit available (subject to status), 29.8% APR, written details on application. All major debit cards accepted.**

# PROFESSIONAL FAMILY PACK (1MB REQUIRED)

MAX VALUE/RRP

- Cartoon Classics Games: Lemmings OR Elf 25.99
- The Simpsons Puznic 24.99
- Captain Planet Toki 25.99
- Deluxe Paint III with animation + 700 Clip Art pics 89.99
- Gold disc Office - WP + UK 'guess spelling' checker, spreadsheet, database, graphics + desktop publishing 169.99
- Digitate Home Accounts 49.99
- IBM VGA Basic OR Round the Bend 4.99
- Virus Killer Disk 4.99
- 80 Prag. Hobbyte PD Greats Pack - see 'Hottest Lot Pack' 39.99
- 4 disc GP pack inc. Fonts, Clip Art and Disc Tutor 9.99
- Hobbyte Primary (specify) or Secondary Educational Pack 19.99
- 10 Blank Discs + 80 Capacity lockable disc box 26.98
- Mouse Mat + Dust Cover and Joystick 19.97
- Mouse Mat + Dust Cover and Joystick 19.97

TOTAL VALUE 508.85  
WITH AMIGA/CDTV SEPARATELY 79.99  
SEPARATELY 99.99

SPECIAL: Also with Citizen 200 24 PIN Colour Printer and Starter Pack ADD 199.00

# NEW RELEASES + BEST BUYS

## MICROVITEC CUB-SCAN 1440 MULTISYNC COLOUR MONITOR FOR 4000/1200

14", 0.28 dot pitch, scan horizontal 15-40 kHz, infinitely variable, with tilt + swivel stand, 3 year warranty ..... £429.99

## SUPRA 80MB HARD DRIVE UNIT FOR A500

Expandable to 8MB ..... £249.99

## CBM 386 + 486 BRIDGEBOARDS FOR 1500/4000 DOWN IN PRICE

386 Bridgeboard ..... £199.99  
486 Bridgeboard ..... £299.99  
with HD 144MB 3.5" PC drive ..... ADD £50.00

## GVP1230/40MHZ/4MB 68882 CO-PRO FOR 1200

£479.99

# TRAMPY'S, THOMAS'S OR NODDY'S PACK 2-9 YEARS

AT LEAST 57 EDUCATIONAL/FUN FILLED GAMES!

MAX VALUE/RRP

- Thomas the Tank Engine's Fun with Words - 6 separate easy to use learning programmes with animation and sound. 29.99
- OR Noddy's Playtime (to 7 years) - 8 magical learning games at 3 levels, PLUS Junior Art package inc. Colouring, electronic 'Fuzzy Felt', FREE Toy Town map, Keyboard overlay and wobbler.
- The Shoe People - 6 colourful and entertaining games featuring Trampy and friends to encourage early number reading and pre-reading skills. With Shoe People music
- OR Fun School 2 (for 3-9 years - specify age) 9.99
- Fun School 3 or 4 - the 'Fun School' suite have won just about every award going. 5 or 6 wonderful animated games. 24.99
- OR ADI Junior Reading or Counting. The loveable extra terrestrial entertains 4-7 year olds and helps towards achieving National Curriculum levels 1, 2 + 3
- Deluxe Paint III with animation + 700 Clip Art pics inc. children, Fairytale + Legend characters, Sport, Cartoons, etc. 89.99
- Hobbyte Primary Educational PD Pack, containing 10 fun while you learn games 19.99
- Hobbyte 30 Easy Children's Games Pack 19.99
- 10 Blank Discs, Joystick, Mouse Mat 26.96

TOTAL VALUE 221.90  
WITH AMIGA/CDTV SEPARATELY 59.99  
SEPARATELY 79.99

SPECIAL: Each extra title from first selection add just 18.99



## + SCHOOL PACK

- Zool - Number 1 Chartbuster 25.99
- Striker - 94% CU Amiga 25.99
- Pinball Dreams - 94% AUJ 25.99
- Transwrite UK WP + Spellchecker 49.99
- ADI French, Maths or English (11-15, specify age)
- ADI the loveable extra terrestrial gifted teacher, guides you through National Curriculum. Ideally complements school work. From the award winning Fun School team 25.99
- OR ADI Junior (see Trampy's Pack)
- OR 4 HOT LIST Games 209.94
- Hobbyte 80 Programme PD Greats Pack - 'See Hottest Lot' 39.99
- Hobbyte Secondary Educational Pack 19.99
- Microswitched quality joystick 9.99

TOTAL VALUE 407.87  
WITH AMIGA/CDTV SEPARATELY 49.99  
SEPARATELY 69.99

## THE HOT LIST

GREAT individually packaged games, BETTER THAN THE REST (prices are RRP's up to 39.99 each)

CURRENT TITLES VARY - INCLUDES:

- Paperboy II Hunt for Red October
- Colossus Chess Blinky's Scary School (under 12)
- Challenge Golf Battleships
- Neighbours Licence to Kill - Bond Game
- Frankenstein Silkworm Helicopter jeep mission 93% CU
- Edd the Duck (under 12) Continental Circus - 8 Int race circuits 92% AA
- Spiderman/Capt America Xenon - C+VG Game of the Month
- Thunderbirds Blade Warrior - A Power, A Format, A Action superb reviews

+ LOTS MORE - AT LEAST 25 TITLES TO CHOOSE FROM!

## AMIGA 24 BIT - £BEST!

- A Video 24 with TV Paint for 500 ..... 588.90
- DCTV ..... 403.99
- GVP IV + VIU-S ..... 989.99
- GVP IV + VIU-CT ..... 1279.99
- Harlequin 4000 24 bit card ..... POA
- Image Master ..... 105.99
- Opal Vision 24 bit board + Opal Paint, Opal Presents, Karate + Imagine ..... 689.99
- Video Processor for Opal Vision ..... POA
- Video Suite for Opal Vision ..... POA
- Retina 24 bit graphics card + 1MB + VD Point ..... 339.00
- Retina 24 bit graphics card + 4MB + VD Point ..... 489.00
- V Lab 24 bit real time digitiser 1200/600/500 external ..... 334.99
- V Lab 24 bit real time digitiser 1500/3000/4000 internal ..... 289.99
- V Lab 4000/3000 internal SVHS ..... 334.99

FOR SPECIALIST ADVICE PHONE JP ON 0727 856005

## ACCESSORIES

- 68000/600/1200 printer centre 28.99
- AS20 Modulator 29.99
- 68000/1200 control centre 34.90
- Alien/Batman/12 Joystick 10.99
- 68000 control centre 27.90
- Bug Joystick 11.99
- Brickmate CDTV Joystick adapt. 44.95
- CDTV Keyboard 54.99

## FLOPPY DRIVES

- Index 3.5 external drive, daisychain + on/off 54.95
- Gamma CAX 354 3.5 external drive, beige 56.50
- PC 8808 with anti click + Blitz back up and virus protector 59.99
- PC 8808 as above, Cyclone compatible 64.99
- Steel drive as PC 8808 124.99
- Replacement A500 drive 34.95
- NEW! High density 1.76MB ext. drive for any Amiga (WB 2) 149.99
- NEW! A2015 high density int 1.76MB 3.5" drive for 1500/2000 78.95
- NEW! A3015 high density int 1.76MB 3.5" drive for 3000 78.95

## MONITORS/ACCESSORIES

- IBM 1084ST including tilt + swivel + 2 games 188.95
- Philips UK 8833 MKII mon.+leads+ Turbo Challenge + on-site 219.99
- TB + swivel stand for 14" monitors 12.99
- IBM 1960 High res monitor 359.99
- NEW! IBM 1940 dual sync. 39 dpi AGA monitor + speakers 274.99
- NEW! IBM 1942 dual sync. 28 dpi AGA monitor + speakers 374.99
- NEW! Microvitec Cub-scan 1440 28dpi for 1200/4000 429.99
- NEW! 9060M Multi-Sync for 1200/4000 models 595.00
- IBM 1936 Hi-res SVGA 28dpi inc. tilt + swivel 259.99
- NEW! 4FG Multi-Sync 544.99
- NEW! PIP View TV tuner+remote with sub picture for monitors 118.99
- IBM Flicker Fixer 99.90
- IBM Flicker Free Video 2-A500 197.90

## SCANNERS & DIGITISERS

- Canon GT 6500, 600dpi 24 bit A4 inc. Scan s/w 779.00
- Power Hand Scanner, 400 dpi, 64 Greyscale, Powerscan software 88.99
- Power Hand Scanner as above, V3 for 1200/4000 104.99
- Power Colour Hand Scanner 219.49
- Sharp JX 100 A6 Scanner + scanlab s/w up to 18 bit 469.99
- Summa Sketch II A4 Tablet Digitiser/A3 Tablet Digitiser 319.99/529.99

## HARD DRIVES/ACCELERATORS 500/600/1200

- 68000 1MB 40MB 479.00
- 68000 1MB 80MB 579.00
- 68000 1MB 120MB 679.99
- 68000 1MB 213MB 749.99
- 68000 68882 218.99
- GVP HDB 42MB 224.99
- GVP HDB 80MB 324.99
- GVP HDB 120MB 458.99
- GVP 20MB 199.99
- GVP for 2.04 1MB 500 139.99
- GVP 85 MB HD 600/1200 274.99
- GVP 1230 030 accel for 1200 284.90
- GVP 1230 40MHz co-pro 199.99
- 4MB RAM 469.99
- NI 230 XA 40MHz 289.99
- NI 230XA 40MHz 4MB 389.99
- NI 230 XA 50MHz 4MB 489.99
- Microbotics VXL30 25MHz 219.99
- VXL 30 40MHz 339.99
- 2MB Burst RAM for above 179.99

## A600/1200 HD UPGRADES

- 20MB 119
- 40MB 149
- 60MB 179
- 80/85MB 215
- 120/127MB 319
- 209MB 549
- INTERNAL CLOCK POA

\*ADD £14.99 for Hobbyte fitting  
\*\*Including FREE courier collection & delivery

## HARD DRIVES/ACCELERATORS A1500/2000/3000/4000

- GVP HCB/II 40MB 278.99
- GVP HCB/II 80MB 314.99
- GVP HCB/II 120MB 358.99
- GVP HCB/II 213MB 544.99
- Extra 2MB fitted to any above 82.99
- G Force 030 25MHZ 1MB 384.99
- G Force 030 40MHZ 4MB 684.99
- G Force 030 50MHZ 4MB 984.99
- G Force 040 33MHZ 4MB 1284.99
- Prog Memory 040 28MHZ (3000) 1349.99
- NEW! SCSI II controller for 4000 229.99
- Synquest removable HD 88MB 658.99

## EXPANSION

- AS50 512k Rom Exp+Clock 21.99
- AS50+ 1MB exp 29.99
- AS50+ 2MB, exp. to 8MB 149.99
- CBM A600 1MB exp + dock 37.99
- A600/1200 2MB exp (card) 117.99
- A600/1200 4MB exp (card) 179.99
- CDTV 1MB exp + Super Agnus 157.99
- A500 Rom Sharer 1.3 37.95
- A500 Rom Sharer 2.04 38.95
- A600 Rom Sharer + 1.3 49.95
- NEW! PCI 204 4MB exp dock 184.99
- PCI 204 4MB exp + 68881 20MHz 239.99
- PCI 204 4MB exp + 68882 25MHz 274.99
- PCI 204 4MB exp + 68882 50MHz 329.99
- MBX 1200 4MB + 68881 14MHz 268.49
- MBX 1200 4MB + 68882 25MHz 334.49
- MBX 1200 4MB + 68882 50MHz 409.00
- IBM version MBX boards above ADD 89.50
- NEW! CBM 2.1 upgrade kit 74.99
- A3065 Ethernet Card 229.95

Chip fitting and board upgrade available, by our qualified engineers POA

## EMULATION

- G Gate 386sx 25MHz 384.99
- GVP 286 for GVP II + S30 146.99
- GVP 40/4 for 1500 945.99
- 386 Bridgeboard 199.99
- 486 Bridgeboard 299.99
- AT Once 214.99

## GENLOCKS/MODEMS

- Rendale 8802 (1200 compat) 139.99
- Rendale 8802 FMC 159.95
- Rendale 8802 SVHS/8860 469.99
- Harna Genlock S290 689.99
- GVP G-Lock 289.00
- Video Pilot v330 1094.94
- Roxgen + 1200 compat 131.50
- Roxgen Rockey 244.90
- Supra 2400 Modem 78.95
- Supra Fax Modem POA

## DISCS

- 10 Blank DS/DD discs in box 4.99
- 10 Blank DS/HD discs 4.99
- 50 Blank DS/DD discs 17.99
- 50 Blank DS/HD discs 27.99

## 2YR WARRANTY WITH CITIZEN PRINTERS

- Citizen 120-D 108.99
- Star LC20 116.99
- NEW! Citizen 90 mono 156.49
- NEW! Citizen 90 colour 169.49
- Star LC 100 9 pin col 158.69
- Citizen Swift 9" col 163.49
- Star LC200 col 174.99
- Star LC 24-20 II 218.49
- Star LC 24-100 24 pin 173.49
- Star LC 24-200 209.99
- Star LC 24-200 col 248.49
- Citizen 1240 176.99
- Epson LQ 100 189.99
- Epson LQ 570 259.90
- Epson LQ 870 469.90
- Epson LQ 1170 569.90
- Citizen S200 24" 179.99
- Citizen S200 24" col 194.99
- Citizen S240 24" col 259.99
- Epson Stylus 800 294.90
- Citizen S24x col 296.99
- HP Deskjet 510 319.99
- HP Deskjet 500 col 439.99
- HP Deskjet 550C 639.99
- HP Deskjet Portable 339.99
- HP Paintjet 639.99
- HP Deskjet 1200C 1349.90
- Canon BJ10cx portable 219.90
- Canon BJ 200 319.90
- Canon BJ 230 A3 369.99
- Canon BJ 330 A3 469.99
- Canon BJ 300 389.99
- Star SJ 48 198.99
- Panasonic KXP 4410 Laser 5ppm 494.95
- Star LS 5 laser 616.95
- HP Laserjet II 619.90
- Star LS Six 5ppm dual bin 729.90
- Sharp JX 9500 9ppm 599.50
- QMS Ink Jet col A4 4999.95

\*Studio driver/Utility (WB 2 & above) highly recommended ADD £39.95

STARTER PACK: 500 Sheets A4 paper, Amiga to printer lead, Universal Printer Stand & Driver with Print Manager

## SOFTWARE

- GRAPHICS/CAD
- Aladin 4D 213.99
- AmigaVision 17.90
- Art Expression AGA 134.90
- Art Dept. Pro 2.3A 147.90
- Brilliance 143.90
- Caligari 24 234.49
- Cine Morph 29.99
- Deluxe Paint IV 53.99
- Deluxe Paint AGA 64.90
- Distant Suns 49.49
- Essence 39.50
- Expert Draw 48.99
- Gallery 39.49
- Image FX 179.99
- Imagine v2 109.49
- Imagine Master AGA 119.49
- IntroCAD Plus 63.99
- Pixel 3D Pro 119.95
- Prodraw 4 AGA POA
- Real 3D Classic 78.90
- Scala 500 HVT 64.49
- Scala Pro 1.13 173.50
- Scala MM200 434.99
- Sculpt Anim.4D 198.99
- Spectra Colour 57.99
- Take 2 36.90
- TV Paint 544.90
- Vista Pro 49.99
- Vista Makepath 24.99
- X CAD 2000 89.50
- X CAD 3000 245.99
- Vidi Amiga 12 73.99
- Vidi 24 POA
- EDUCATIONAL
- Any Fun School 3 or 4 15.99
- Any ADI 16.99
- Merlin's Maths 16.99
- Point & Create 16.99
- Spelling Fair 16.99
- See also software packs
- UTILITIES/LANGUAGES
- AMAX II Plus 249.99
- Ami back 39.90
- Ami back Tools 21.49
- Amos 3D 21.49
- Amos the Creator 30.95
- Amos Compiler 19.49
- Amos Prof. 32.99
- Amos Prof. Compiler 24.99
- Easy Amos 22.49
- ConDo 2 93.50
- Cross Dos v5 29.75
- Directory Opus 4 47.49
- Disk Master II 43.75
- Emplant POA
- GB Route + 32.99
- GFA Basic 8.99
- Gigamem 47.50
- SAS/Lattice C 255.99
- Quarter back 39.49
- Quarter back Tools 43.99
- Quarter back Tools Deluxe POA
- Xcopy Pro 34.95
- APPLICATION
- Arena Accounts 82.50
- Excellence 3 39.99
- Final Copy V2 74.99
- Kind Words III 32.99
- Maxipion Plus v4 34.50
- Mini Office 37.49
- Pagestream 2.2 94.99
- Pagesetter 3 AGA 42.49
- Pen Pal 1.4 34.50
- Pers Finance Man + 29.50
- Pro Page 4 AGA 136.49
- Publisher 31.90
- Saxon Publisher 177.95
- Superbase Pro 4 148.99
- Wordsworth AGA 72.90
- Works Platinum 38.99
- MUSIC
- AD 10 12 Studio 16 Sampler 349.95
- Audio Engineer +2 149.49
- Audio Master 4 41.49
- Bars & Pipes 2 239.99
- Clarity Sampler 104.99
- GVP DSS 38.99
- Midi Interface 19.95
- Rambo Megamix Mstr 27.99
- Stereo Master 26.99
- LEISURE TOP SELLERS
- AVBB Harrier Assault 27.49
- Campaign 22.99
- Chaos Engine 16.49
- Chuckrock 2 17.99
- Epic 9.99
- F1 Grand Prix 24.99
- Gunship 2000 24.99
- Indiana Jones 23.99
- Lemmings 2 18.90
- Monkey Island II 23.99
- Nick Faldo's Ch. Golf 22.99
- Nigel Mansell AGA 21.99
- Premier Manager 15
- Putty 12.99
- Road Rash 16.99
- Sensible Soccer 15.95
- Sleepwalker 20.90
- Sleepwalker 2MB 9.99
- Streetfighter II 17.49
- THUNDERBIRDS! 12.99
- Trivial Pursuit 9.99
- Wing Commander 19.49
- Zool 15.99

\*Price applies only with Amiga hardware purchase

## ORDERING:

TELESALES NO: 0727 856005 FAX: 0727 834944

Some day despatch for debit or credit card orders placed before 5pm subject to availability. Alternatively send cheque, postal order, bankers draft or official order (PLCs, Education and Government bodies only) to: Dept. CUA, Hobbyte Computer Centre, 10 Market Place, St. Albans, Herts AL3 5DG. Please allow 7 working days for cheque clearance. Subject to availability, despatch is normally within 24 hours of receipt of cleared payment. Prices are correct at time of going to press, however, we are sometimes forced to change them, either up or down. Please check before ordering. Additional services and different packages may be offered in our showrooms, and prices may vary from Mail Order prices. Personal callers are asked to quote this ad to ensure Mail Order packages are offered.

## DELIVERY CHARGES:

- Small consumables & software items
- Other items, except lasers
- Offshore and Highlands
- IN ADDITION WE OFFER THE FOLLOWING EXPRESS SERVICES:
- Saturday deliveries
- Am next day
- UK MAINLAND (NOT HIGHLANDS)
- Despatched by post, please check charges when ordering
- Next day courier service, £10 per box
- Phone enquiry
- Normal rate plus £15
- Normal rate plus £8

## NO DEPOSIT CREDIT FACILITIES

Credit terms at 29.8% APR (variable) can be arranged for purchases over £150, subject to status. Competitive leasing schemes are also available for businesses, including sole traders and partnerships. Just telephone for written details and application form.

NOTE SEE ACROSS

TELE-ORDER (0727) 856005

HP AUTHORISED DEALER

CITIZEN DEALER PLUS

# A CONVERSATION WITH LEW

**CU:** Do you ever feel that hardware design is compromised by marketing objectives?

**LE:** Yes, all engineers feel that their designs are compromised by market requirements. The major requirement is cost. All engineers would love to be able to ignore cost targets in a system design.

**CU:** What factors determine where hardware is manufactured?

**LE:** The primary factors are competitive manufacturing costs; i.e. labour costs, facilities costs and special duty (import tax) considerations. Also of importance is the quality and reliability of the work force.

**CU:** Are you completely happy with the IDE interface on the A4000?

**LE:** Remember that the A4000 is actually a family of systems with different price and performance targets. The IDE costs less than one dollar to add to the A4000 and makes good sense on the EC030 class systems. SCSI is more appropriate on the 040 and A4000T class systems and is thus available as a feature on the A4000 and as standard on the A4000T.

**CU:** Surface Mount Technology enables cheaper mass production, but does it cause design problems?

**LE:** Surface mount technology (SMT) is less costly and much more reliable. It causes no additional design problems, and in fact some components are only available in SMT packages.

**CU:** Aside from the marketing aspects, how feasible is a portable Amiga?

**LEW:** A portable Amiga that is competitive with IBM or Apple systems is not technically feasible at this time.

**CU:** Do you feel that a sufficient market yet exists for such a machine?

**LE:** Personally, I don't believe that a large enough market exists to devote any resources to such a product at this time.

**CU:** Do you have plans, however vague, for adopting reduced

**This month CU was fortunate to talk to Lew Eggebrecht, Commodore's Vice president of Engineering and designer of the CD32 console.**

**L**ew Eggebrecht started his life in computers 24 years ago when he left college to join the fledgling company IBM. He was part of the team that developed their first Reduced Instruction Set Chips (RISC). Later he moved to Atlanta where he worked with the vice president on low end systems. He's stayed with sub-mainframe sized systems ever since.

From IBM he was drafted to Commodore as a consultant on their PCs, in particular working on the next generation of PC compatibles. Having already worked with Apple and IBM, he was finally moved to the Amiga about which he knew absolutely nothing. That in itself was challenge enough for Lew and he promptly started work on the next generation Amiga chipset - a move which eventually resulted in the AGA chips and of course Lew's personal baby, the CD32.

Acknowledging the fact that the Amiga has been left behind by the PCs in the race to find a mass market computer, Lew says 'We're trying to demonstrate credibility and an ability to produce new products.' In other words Lew and his team are out there trying to show

the business world that the Amiga is every bit as good, if not better than, the popular computers. To achieve this he's made himself more accessible to people so that the technology can become more widely known and understood.

When Lew took over engineering at Commodore, the AGA architecture was already completed, but nobody was doing anything with it. A kind of unfocussed malaise had fallen over the development team and although AGA existed, they hadn't come up with a machine to put it into. Lew's first action was to give the team a proverbial boot up their collective backsides and give them clear development objectives (which they had largely lacked until that point). The result was the A4000, then the A1200.

Since then Lew has been working on the next generation of Amigas, including triple A architecture and true colour graphics. Obviously the CD32 has occupied a great deal of his time, and it's expected that the peripherals for that will keep his team busy for a couple of months yet. After that? Well, read on as Lew answers our questions...

**instruction set chip (RISC) technology?**

LE: Yes, we are very actively investigating alternative RISC architecture for use in the Amiga.

**CU: Are new developments in Amiga technology market led or technology led?**

LE: Most new developments are technology led. In this industry it is common to have technologies for which markets do not yet exist.

**CU: How much of a problem is backwards compatibility when designing a new Amiga?**

LE: Backward compatibility is a major design issue and effort for new products. With limited software we cannot afford to make existing software or development tools obsolete.

**CU: By constantly attempting to maintain backward compatibility, Commodore has created a market which expects this from new Commodore machines. When is it time to make the break, and forget about compatibility in favour of a more powerful and wholly original machine?**

LE: We are presently planning a new generation of Amiga systems based on RISC and new graphics architecture. Plans are to support both Motorola and RISC to provide users with a migration path from one technology to the other.

**CU: Aside from SCSI cards, bridgeboards and accelerators, which upgrades do you think Commodore should provide itself rather than relying on third party manufacturers?**

LE: We need to concentrate our resources on the systems, units and key peripherals and new technologies that will eventually end up on the motherboards of our computers; i.e. audio, digital signal processing (DSP), full motion video (FMV), CD ROM, Local area networks (LAN), etc.

**CU: Why is there such a delay between the release of new Amiga technology and the update of the Amiga reference manuals?**

LE: I believe we have improved the lead time and quality of manuals on the A1200 and A4000. Manuals take time due to the effort of translating them.

**CU: What technological advantages do you think the Amiga has over its rivals in business?**

LE: Our major advantage is our multi-media capable Amiga chip set

and multi-tasking Amiga DOS.

**CU: Does it sadden you to see your technological efforts marketed badly as they have been in the past?**

LE: Everyone would like to see more marketing efforts. More marketing targetted properly early in the life of the Amiga could have helped significantly.

**CU: What are the most important hardware features that you think should be present in the next generation of Amigas?**

LE: RISC processors, real-time 3D animation, 16-bit sound, high resolution screens (greater than 1K x 1K) and true colour graphics.

**CU: Do you think that there's any point expanding the colour resolution of the AGA chipset?**

LE: Yes. The next generation Amiga chip sets will have both greater resolution and increased colour depth.

**CU: Is there any likelihood of seeing a high-res flicker-free (as standard) Amiga for the mass market?**

LE: The cost of monitors capable of showing such a display needs to

come down dramatically before this becomes a mass-market prospect.

**CU: Why do think so few manufacturers actively supported the Zorro III standard?**

LE: Because many adaptors don't need the Zorro III's capabilities, designers try to capture all market opportunities.

**CU: What one thing would make your job a lot easier?**

And what does the world's top Amiga engineer read in his spare time?

LE: More engineers.

**CU: What do you say to people who complain that a new Amiga is released every six months?**

LE: I wish this was true.

**CU: Do you consider the CDTV to be a mistake? What would you have done differently?**

LE: Although it wasn't as successful as we had anticipated, we gained invaluable marketing and technical experience from it.

**CU: How much of the CDTV's technology can be found inside CD32?**

LE: A lot of technology and experience from CDTV is in CD32; i.e. CD ROM DRV, Development tools. Many CDTV titles will operate on CD32.

**CU: Don't you think that the CD32 is a tremendous risk considering the market dominance of Sega and Nintendo?**

LE: No. Sega's MegaCD is only 16-bit with poor performance and software, and Nintendo has no CD product at this time.

**CU: Why did you develop the A600? Are you aware of the tremendous amount of ill feeling generated towards Commodore by those people who rushed out and bought what they thought was the next generation only to find their machine junked after less than six months?**

Many lessons learnt during the development of CDTV proved invaluable when it came to laying plans for the CD32.

Overall user-friendliness was an important consideration so thankfully there are no more caddies just a simple top-loader.



» LE: The A600 was originally planned as a low end C64-like replacement. It was originally called the A300. Unfortunately, it was marketed as an A500 replacement. This was a mistake.

**CU: How have the present cut-backs at Commodore affected R&D. Has this had any effect on the rumoured A1400 or A8000?**

LE: We have taken staff reductions in Engineering but the core development group is still intact with no major effects upon new systems development schedules.

**CU: It was mentioned at the recent press conference to launch the CD console that the forthcoming triple A machines will be five times faster than the Pentium chip. Is this true?**

LE: Pentium is approximately 60 MIPS. The highest performance RISC system DEC alpha and HP-PA only achieve 200 MIPS. I don't know of any system that is five times as fast as Pentium.

**CU: Considering the constant pressure from console rivals, why doesn't CBM develop any decent Point-of-sale demos to show off the Amiga in shops?**

LE: We will be adding new demo capabilities to support Demos.

**CU: Obviously CD ROM is seen by many as the future of computing. Where does this leave 'smart card' technology? Do you expect to see that grow on the Amiga, or was the inclusion of a card slot an afterthought which nobody takes seriously?**

LE: The two technologies are not comparable in any way; i.e. function, application or cost.

**CU: In the CD32 CBM has a console which beats any other on the market. Sega have already announced a virtual reality headset for their machine - is it likely that CBM will explore a similar route?**

LE: Yes, we expect third parties to add virtual reality applications and peripherals to the CD32.

**CU: What's your opinion of virtual reality?**

LE: This is an exciting new area just now being addressed by software developers. CD32 is one of the first consoles sufficient power to support virtual reality applications.

**CU: Back to the subject of peripherals again, I believe games peripherals such as light guns, joy-**



Here Lew demonstrates the dangers of using superglue in a lacksadaisical manner. 'Has anyone got a hacksaw?'

**sticks, etc. produce a much higher profit to development ratio than computers. Why don't CBM follow this avenue of business?**

LE: With our limited resources we must concentrate on the base systems. Peripherals may have high margins but come with many inherent support and logistical problems. Therefore in reality they provide lower total revenue opportunities.

**CU: Do you plan to stick with Motorola-based chips? What are your thoughts on the 68060 and the pentium?**

LE: We will continue with the Motorola 680xx processors. The 68060 seems to be coming late compared to the Pentium. After the 68060 we will switch to RISC-based design.

**CU: What would be the specs of your dream machine?**

LE: You have to give me a cost target to properly answer this question. In the real world there would never be a time when one could simply choose a machine with no consideration of its expense.

**CU: How far away do you think 'intelligent' computers such as those seen in Star Trek are?**

LE: Artificial Intelligence is still a long way off.

**CU: Why was the Amiga's speech synthesis so poor considering the wonderful quality of its sound generators?**

LE: Speech will soon be available on the Amiga in four languages. Its quality will be vastly improved over what you've heard before.

**CU: There have been complaints about the lack of a DSP. Is it likely that we'll see an Amiga with one in it soon?**

LE: Yes, but it's starting as an add-on adaptor for the high-end systems first.

**CU: Has the importance of a DSP been overrated by the press or techies?**

LE: Yes, I believe so. Many RISC processors can actually outperform DSP-based products. The cost of DSP sub-systems has been much higher than anticipated.

**CU: Many people predicted that the first A4000s and A1200s were**

**simply a 'stop-gap' measure released to stop Atari's Falcon from getting too popular. Is there any truth to this? If so, can we expect to see any changes to the design of either machine or will they forever remain in their current form?**

LE: We do not consider Atari to be a threat. The form of the A1200 and A4000 will evolve slowly over time to improve function and costs but no major changes are planned.

**CU: Do you feel that the price of the A4000 can be justified given the price of a 486 PC? And if so, why?**

LE: Pricing is set in each country depending on competitive situations. I don't deal with pricing issues. I am most concerned with costs. In the cost area we are competitive with IBM clone systems.

**CU: Which came first as a development idea the AGA chip set or CD32?**

LEW: AGA.

**CU: Apparently there will be a CD32 add-on for the A1200 and A4000. Is there any hope of such a device for non-AGA owners?**

LEW: There will be a CD32 'add-on' for the A1200 and A4000. Such an add-on is planned for the A600 or A500.

**CU: How soon can we expect to see the CD32 for the A1200/4000?**

LEW: Late this autumn.

**CU: And the FMV attachment?**

LEW: The same time.

**CU: Isn't it high time the Amiga's sound capabilities were upgraded, either to 8/16 channel or 16-bit (or both ideally)?**

LEW: Yes. The new chip set will have 8 voices with 16-bit sound at sampling rates of 100KHz.

**CU: What do you think was the single greatest challenge in designing CD32?**

LEW: Achieving cost targets.

**CU: Are there any comments that you would like to make?**

LEW: The new Amiga CD32 is a great step forward for Commodore achieving a price/performance design point unique in the industry. We have high hopes for this product as a replacement for the CDTV and as a game console competing directly with Sega and Nintendo.

# SIM

# LIFE™

## THE GENETIC PLAYGROUND

THERE ARE TWO VERSIONS AVAILABLE: **STANDARD** - FOR ALL AMIGAS. **ENHANCED** - FOR A1200/A4000 ONLY

As you take the SimLife disks out of their pack you hear strange celestial music. Load them up and a deep rumbling sound is heard in the distance; the cosmos twitches. You are about to become a major player in the game of life.

Until now you thought gene splicing involved ripped trousers... a balanced ecosystem was a new washing powder - and that genomes lived at the bottom of the garden? Now you'll find out different.

In SimLife, take the challenge of our inbuilt scenarios or create your own unique world where your imagination can run riot. Design plants and animals, then decide how they act, how (even who) they eat - even how they reproduce!

Now watch this world evolve in front of your very eyes, as a completely new environment takes shape under your command. Will you be responsible for producing a tropical paradise, an arctic wasteland - or a planet inhabited by even stranger creatures than in this one?

More than a game. It's evolutionary.

"Superbly designed,  
flawlessly executed..."  
93% CU Amiga



"It is an entertaining  
piece of software and  
has years of enjoyment..."  
85% MacFormat

"Intriguing, very deep  
and absorbing, easy to  
use, great fun..."  
85% PC Home



PUBLISHED BY



Distributed by



Mindscape International,  
Priority House, Charles Avenue,  
Maltings Park, Burgess Hill,  
West Sussex RH15 9PQ  
Tel: 0444 246333  
Fax: 0444 248996

CUT OUT THIS COUPON AND POST IT IN AN ENVELOPE TO FREEPOST, SIMLIFE, MINDSCAPE INTERNATIONAL LTD, PRIORITY HOUSE, CHARLES AVENUE, BURGESS HILL, WEST SUSSEX, RH15 9PQ

**YES. TELL ME MORE ABOUT 'SIMLIFE'.**

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

POSTCODE \_\_\_\_\_

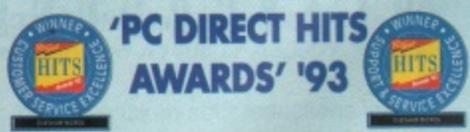
TEL \_\_\_\_\_

CUA 01

CALL US NOW ON (0386) 765500 • Evesham Micros

# Evesham Micros

WINNER OF TWO PRESTIGIOUS



'Customer Service Excellence' 'Support & Service Excellence'

PRICES INC. DELIVERY & VAT @ 17.5%

HERE TODAY ~ HERE TO STAY

Evesham Micros First. First for choice, prices and service. Established for over ten years, with a strong financial status and secure future. Our Computerised Telesales Order Processing Investment means fast, efficient service. Well appointed Retail Showrooms with large product range on display. Our huge Customer database, high percentage of repeat custom and personal referrals underlines our popularity. REMEMBER - when you need us, we will still be here. Our extensive expansion program means we could eventually be there as well ...

## HOW TO ORDER



Call us now on  
**0386 765500**

TELESALES OPENING TIMES:  
9am - 7pm Monday-Friday  
9am - 5.30pm Saturday

Send Cheque, Postal Order or Access/Visa/Switch/AmEx card details to:

**Evesham Micros Ltd.,**  
Unit 9, St Richards Road,  
Evesham, Worcs. WR11 6TD

..... or FAX your Order with Access, Visa, Switch, AmEx card details to us on:  
**0386-765354**

Government, Education & PLC orders welcome • Same day despatch whenever possible • Prices include delivery (UK Mainland only) • Express Courier delivery (UK Mainland only) £6.50 extra • Please note that 5 banking days must be allowed for cheque clearance. Immediate clearance on Bank Drafts • Credit card orders: We do not charge the card until the goods are despatched.

**Cards Welcome**



Always A Good Sign

## RETAIL SHOWROOMS

Normal Opening times: Monday-Saturday, 9.00-5.30  
Late Night Opening Until 7pm Wednesday-Friday

<b>EVEESHAM</b> Unit 9 St Richards Rd, Evesham Worcs WR11 6TD ☎ 0386-765180 fax: 0386 765354	<b>BIRMINGHAM</b> 251-255 Moseley Rd, Highgate Birmingham B12 0EA ☎ 021-446 5050 fax: 021 446 5010
---	---

<b>CAMBRIDGE</b> 5 Glisson Road, Cambridge CB1 2HA ☎ 0223-323898 fax: 0223 322883	<b>MILTON KEYNES</b> 320 Witan Gate, Milton Keynes MK9 2HP ☎ 0908-230898 fax: 0908 230865
--	--

TECHNICAL SUPPORT ☎ 0386-40303  
Monday to Friday, 10.00 - 5.00

1 YEAR WARRANTY ON ALL GOODS

Details correct at time of going to press • All goods subject to availability

## AMIGA 500 SOLDERLESS RAM UPGRADES

**A500 512K RAM/CLOCK UPGRADE**

**ONLY £19.99**  
INC. VAT AND DELIVERY

ALSO WITHOUT CLOCK FOR ONLY:  
**£16.99**

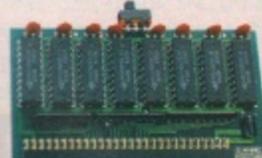
★ CONVENIENT ON / OFF MEMORY SWITCH ★ AUTO-RECHARGING BATTERY BACKED REAL-TIME CLOCK ★ COMPACT, ULTRA-NEAT DESIGN

**'A500 PLUS' 1MB RAM UPGRADE**

**THE FASTEST AND EASIEST WAY TO UPGRADE YOUR A500+ TO 2MB RAM!**

Simply Plugs into trapdoor expansion area ★ Increases total RAM capacity to 2Mb 'ChipRAM' ★ RAM On/Off Switch ★ Compact unit size ★ Only 8 low power RAM IC's ★ High reliability

**ONLY £42.99**



## 1.5MB RAM BOARD

UPGRADE TO 2MB FOR ONLY £69.99!

Fully populated board increases total RAM in A500 to 2Mb! ★ Plugs into trapdoor area, & connects to 'GARY' chip ★ Includes Battery-Backed Real-Time Clock ★ Socketed RAM ICs on 512K / 1Mb Versions

Unpopulated RAM board with clock ..... £ 34.95  
With 1.5Mb FASTRAM installed..... £ 69.99

N.B.: The expansion board requires Kickstart 1.3 to operate - Kickstart 1.3 upgrade available from us for £29.95



## 'MEGABOARD'

With our MEGABOARD, you can further expand your A500's memory to a total of 2MB without disposing of your existing 512K upgrade (must be 4 x RAM-chip type, or not exceeding 9cm in length).

**ONLY £47.99**

**CONNECTS TO YOUR 512K RAM UPGRADE TO GIVE 1.5MB**

MEGABOARD needs Kickstart 1.3 to operate (Kickstart 1.3 upgrade available from us for £29.95). Installation requires connection to the GARY chip. Easy to follow instructions provided.

## ROCGEN GENLOCKS

OFFERING EXCEPTIONAL VALUE FOR MONEY, the Roggen Genlocks offer levels of quality, function and sophistication not normally available in this price category.



Genlock Plus

SPECIAL OFFER! ROCGEN MK.II INCLUDES 'HOME TITLER' SOFTWARE FOR A500

**GENLOCK MK.II ONLY £79.99**    **GENLOCK PLUS ONLY £149.99**

## NEW PHILIPS TV/MONITOR



With its dedicated monitor input, this model combines the advantages of a high quality 15" medium resolution colour monitor with the convenience of remote control Teletext TV - at an excellent low price! Features dark glass screen for improved contrast.

**£249.00** Including VAT, delivery & cable

Philips CM8833 Mk.II Monitor (Genuine UK version), includes cable, 1 Year on-site maintenance and 'Lotus Esprit Turbo 2' game ..... £ 229.00

## PRINTERS

Prices Include VAT, Delivery and Connection Cable

**ALL EVESHAM MICROS STAR PRINTERS INCLUDE 12 MONTHS ON-SITE WARRANTY**

Star LC 20 Successor to LC 10, 4 fonts, 180/44cps	£ 129.99
Star LC 100 Entry level 9-Pin Colour, 4 fonts	£ 168.03
Star LC 200 9-Pin Colour, 4 fonts, 180/45cps	£ 198.58
Star LC 24-100 24-Pin, 5 fonts, 192/64cps	£ 196.23
NEW! Star LC 24-20 MkII 24-Pin, 210cps high speed draft	£ 229.13
Star LC 24-200C Superb 24-Pin Colour, 5 fonts, 200/67cps	£ 276.13
Automatic Sheet Feeder for 10" LC printers (pls.state model)	£ 64.95
Star XB24-200 COLOUR 24-pin, 80 col. power printer	£ 405.38
Star XB24-250 132 column version of XB24-200	£ 492.33

Citizen 240 COLOUR printer	£ 299.99
NEW! Hewlett-Packard Deskjet 510	£ 327.83
Hewlett-Packard Deskjet 500C Colour	£ 445.33
Hewlett-Packard Deskjet 550C Colour	£ 645.08
Canon BJ-10SX Inkjet Printer	£ 233.83
NEW! Canon BJ-200 Inkjet Printer 360dpi, upto 240cps, 8 fonts, 80-sheet feeder, IBM and Epson emulation	£ 339.58
Epson LX400 budget 10" carriage 9-pin 180/25cps	£ 139.00
Epson LQ100 24-pin 180/60cps, 8k buffer	£ 205.00
Panasonic KXP1124i updated 24-pin model 300/100cps	£ 279.00
Panasonic KXP2123 good value 24-pin colour model	£ 269.08

## 3 1/2" EXTERNAL FLOPPY DRIVES



AMAZING LOW PRICE!

**£52.99**

including VAT & delivery

- Very quiet
- Slimline design
- Suits any Amiga
- Cooling vents
- Sleek, high quality metal casing

- Quality Citizen/Sony drive mechanism
- Enable / Disable switch
- Full 880K Formatted Capacity
- Long reach connection cable
- Throughport facility for addition of further drives

**REPLACEMENT A500 INTERNAL 3.5" DRIVE KIT**



Fully compatible, with 1Mb unformatted capacity. Straightforward installation procedure. Kit includes full fitting instructions.

**ONLY £44.99**

## TOP VALUE 400dpi HANDY SCANNER

QUALITY SCANNING - AT THE RIGHT PRICE!

At a genuine 400dpi scanning resolution, this scanner produces truly superb quality scans. Has a full 105mm scanning width, variable brightness control and 100 / 200 / 300 / 400dpi resolution. Daatascan Professional Version 3 - scanning and editing software allows real-time scanning in either line art or in up to 64 simulated grey scales. Provides powerful editing features and excellent compatibility with most DTP and Paint Packages, eg. Deluxe Paint 4, Touch-Up. Also supplied is The Publisher DeskTop Publishing package, ideal for incorporating your scanned images into flyers and newsletters.



Now includes DAATASCAN PROFESSIONAL VERSION 3 and THE PUBLISHER'S Desktop Publishing software

STILL ONLY **£99.99**

## TRUEMOUSE



WE GUARANTEE that this is the smoothest, most responsive and accurate replacement mouse you can buy for the Amiga. Excellent performance, now with a 300dpi resolution. Amazing new price!

**£14.99** SATISFACTION GUARANTEED

GOLDEN IMAGE OPTICAL MOUSE Amiga/ST compatible - excellent travel+accuracy assured. NEW LOW PRICE!.. **£29.00**

## TRACKBALL



High performance trackball, directly compatible to any Amiga or Atari ST. Plugs into mouse or joystick port. Super-smooth and accurate - you probably won't want to use a mouse again after using this Trackball! Full one-handed control. Top quality opto-mechanical design, giving high speed and accuracy every time. No driver software needed!

ONLY **£29.95**

## NEW! A500 ROM SWITCHER

SWITCHING BETWEEN VERSIONS OF KICKSTART ON YOUR A500 IS EASY WITH OUR NEW ROM SWITCHER!

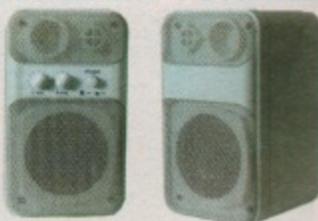
You can improve software compatibility on your A500 Plus! By fitting our ROM switcher, you can alternate between the Kickstart 2 already resident and another version of Kickstart ROM chip, giving you the freedom of choice. Fitting is very simple indeed, and requires no soldering or special technical knowledge. Fitting allows two methods of switching; either by keyboard reset, or by an external toggle switch. N.B. Kickstart ROM not supplied. A500 Revision 5 boards will require circuit modification.

ONLY **£24.95**

Kickstart 1.3 ROM supplied separately.....only **£29.95**  
Kickstart 2.0 ROM supplied separately.....only **£39.95**  
A500 Revision 5 PCB Circuit Modification Service.....**£29.95**

## ZY-FI Amplified Stereo Speakers

REALISE THE TRUE SOUND POTENTIAL OF YOUR AMIGA WITH THIS PAIR OF FULL RANGE SPEAKERS!



Your Amiga produces fine quality hi-fi stereo sound. Enjoy quality stereo sound reproduction to the full with this new design twin speaker system! Incorporates a built-in amplifier with separate adjustable volume controls for each speaker unit. Runs from PSU (supplied) or from batteries (not included).

ONLY **£39.95**

## REPLACEMENT POWER SUPPLIES



Genuine Commodore Amiga A500 type replacement Power Supply Unit. Good quality 'switch mode' type. Super low price!

ONLY **£39.95**

Replacement Power Supply for A590 Hard Disk.....**£49.95**

## ACCESSORIES

MIDI Interface connects to serial port.....**£19.95**  
Virus Protector fits to last drive in system, protecting all drives.....**£6.95**  
VIDI-12 Amiga video digitiser package inc. VIDI-Chrome.....**£110.00**  
Amiga 500 Dust Cover.....**£4.95**  
Amiga 600 Dust Cover.....**£4.95**

## SOFTWARE

Digitia Wordworth.....**£99.00** MR Backup.....**£29.95**  
Kind Words 3.....**£49.95** AMOS.....**£37.50**  
Protext V5.5.....**£120.00** HISoft Lattice C.....**£199.00**  
Home Accounts V2.....**£49.00** GFA BASIC Compiler.....**£24.95**  
Deluxe Paint 4.....**£79.99** Devpac 2.15.....**£44.95**  
Deluxe Video 3.....**£84.95** Workbench Management.....**£9.95**

# R A500 HARD DISKS

Reference All the features ...without the price

AMIGA March 1993 FORMAT

Verdict **84%**

"Very attractive indeed - you get a good deal for a decent drive."

- ★ SCSI HARD DISK MECHANISMS for optimum performance, fast Access Time & Autoparking
- ★ Includes its own DEDICATED PSU. CBM recommends against use of Hard Disks without independent power supply.
- ★ Option for up to 4MB additional easy RAM EXPANSION, using 'SIMMS'
- ★ CDD... by popular demand, we have fitted a Cooling Fan!

- ★ GAME SWITCH allows Games to be loaded without disconnection
- ★ Includes SCSI THROUGHPORT at rear for further expansion
- ★ Compatible with Reference Add-On Hard Drive and Reference RAM unit
- ★ High quality metal casing, colour and style matched to the Amiga 500
- ★ Includes 'HD Setup 3' (external SCSI low level format and partition utility) and 'MRBACKUP PRO' (backup utility)

40Mb MODEL ONLY **£229**  
100Mb MODEL ONLY **£329**

2Mb RAM Version: ADD **£70.50**  
4Mb RAM Version: ADD **£141.00**

Reference Add-On Hard Drive Cased Hard Disk with power supply  
40Mb...**£199** 100Mb...**£299**

# R A500 RAM UNIT

Reference

- ★ RAM access LED
- ★ RAM test/run switch
- ★ Uses 1Mb 4-bit ZIPS
- ★ Style matched to the A500
- ★ Very low power consumption
- ★ Throughport for further expansion
- ★ Compatible with A590 and most other SCSI Hard Drives (please call to check)
- ★ Optional PSU (allows Amiga to power other devices)
- ★ Available fitted with 2Mb, 4Mb, or fully populated with 8Mb

Incorporating the latest 'ZIP' DRAM technology, our External Memory Upgrade allows the A500 / A500+ to be upgraded by up to a further 8Mb of auto-configuring FASTRAM.

N.B. Any memory fitted to this unit is in addition to that on your machine already, to a maximum of 8Mb on the external unit.

With 2MB fitted...**£112.99** with 4MB...**£159.99** with 8MB...**£259.99**

PARTIALLY POPULATED UNITS EXPAND TO 8MB WITH 2MB MODULES, AVAILABLE SEPARATELY AT ONLY **£89.99 PER 2MB** • OPTIONAL POWER SUPPLY **£14.95**

# AMIGA 600 AMIGA 600

## STANDARD PACK

With 12 months on-site maintenance  
ONLY **£199.99**  
2MB RAM/CLOCK VERSION **£239.99**

## WILD WEIRD WICKED PACK

Features: 20Mb Hard Disk • Push-over • Grand Prix • Putty • Delux Paint III • 12 months on-site maintenance  
ONLY **£229.99**  
2MB RAM/CLOCK VERSION **£269.99**



- Built-in TV Modulator
- Built-in IDE Hard Disk Controller
- Kickstart 2
- 1Mb ChipRAM
- Accepts Memory Cards

## 4MB RAM CARD

For any A600.....**£189.00**

## STANDARD PACK

Special Hard Disk Model  
Supplied with Evesham Micros fitted 60Mb Hard Disk.  
Please note that the Hard Disk installation is not covered by on-site maintenance

ONLY **£364.99**  
2MB RAM/CLOCK VERSION **£404.99**

## EPIC PACK

40Mb Hard Disk • 12 months on-site maintenance  
ONLY **£389.99**  
2MB RAM/CLOCK VERSION **£429.99**

## AMIGA 1200

KickStart/Workbench 3.0 • Fast 68020 processor • AGA chipset • CPU/DMA expansion port • PCMCIA expansion slot **£379.99**

Hard Disk Model With Evesham Micros fitted 60Mb Hard Disk. **£549.99**

## UPGRADE YOUR OWN A600/1200 TO HARD DISK

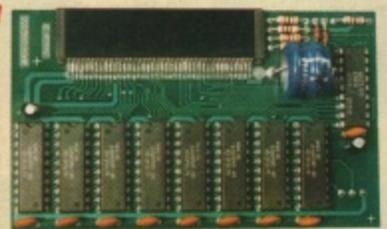
Bring the benefits of a Hard Disk installation to your existing Amiga 600/1200 with our easy to fit upgrade.  
**60Mb kit....£229.00**

## A600 1MB RAM/CLOCK UPGRADE

UPGRADE YOUR NEW A600 TO 2Mb WITH THIS SIMPLE PLUG-IN MEMORY UPGRADE!

- ★ Simply Plugs into the A600's trapdoor expansion area
- ★ Increases total RAM capacity of A600 to 2Mb 'ChipRAM'
- ★ RAM Enable / Disable Switch
- ★ Battery-Backed Real-Time Clock

ONLY **£44.99**



Evesham Micros • CALL US NOW ON (0386) 765500 • Evesham Micros • CALL US NOW ON (0386) 765500 • Evesham Micros

# SCREEN SCENE

Strap in for a roller coaster ride through all the new game releases.

- 52 DIGGERS**
- 52 BRUTAL SPORTS**  
- FOOTBALL
- 53 TENSAI**
- 53 REALMS OF DARKNESS**
- 54 SEEK AND DESTROY**
- 54 BLOB**
- 54 BUBBA AND STIX**
- 56 JURASSIC PARK**
- 60 BLADE OF DESTINY**
- 64 CASTLES II**
- 66 ISHAR AGA**
- 66 SIM LIFE AGA**
- 69 GLOBAL GLADIATORS**
- 70 ANIMATION CLASSICS**
- 72 THE PATRICIAN**
- 75 CAMPAIGN MISSION DISK**
- 75 PROJECT X ENHANCED**
- 80 VFM**
- 85 PLAY TO WIN: GUNSHIP 2000**
- 89 TROLL'S HEAD**

A CU Screen Star is for games scoring 85%-92%. If a game gets one of these, it'll be of lasting quality and you can rest assured that, if you decide to purchase it, you won't be wasting your money.



93% and a game's worth a Superstar. We hardly throw them around, but if a game gets one it'll be completely outstanding.



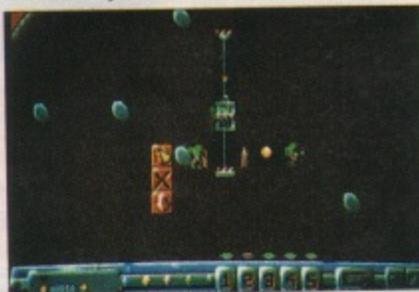
With more games than Toys R Us this is the only place to find out what's coming your way.

## DIGGERS MILLENNIUM

From the creator of *Global Effect* comes this mining-based puzzler. Set on the Planet Zarg, you'll play the leader of one of four digging races as they head for the Zargon Trading Centre to start mining for riches.

The game begins at dawn on the glorious 412th, which signifies the start of a month of frenzied mining of the planet's riches. The aim of the game is, much like *Powermonger*, to dominate 33 mining zones by either stripping them of an appropriate amount of gems or by killing the other mining party there. Either way

When you sell the gems at the bank you'll be able to purchase better mining equipment, like this nifty lift.



# FIRST



The control system has been designed so that only relevant icons will pop up when you move the pointer over an object.

Each mining group consists of five creatures. Boredom is a very real danger for you so these numbers will change colour to signify a miner's current state of mind.

The amount and types of gems collected are shown here.

is equally valid so it'll be left to you to decide whether to play the game strategically or offensively or to mix the two.

With 33 zones, each composed of different temperate zones including ice, forest and desert, there'll be over 37,000 locations to explore. With hidden levels and fiendishly hostile inhabitants this game will surely take a long time to beat. Indeed, if that's not enough your diggers all have personalities and will go off and do their own thing if left alone for too long. This little twist is bound to make for frantic

switching of characters as you not only try to protect them from the planet, the other team and themselves but also try to collect as many gems as possible.

It looks like Toby, the coder, really has pushed the machine to its limits with the inclusion of a 64 pixel wide AGA background and smoothly graded copper skies. Due to make its first appearance on the Amiga CD in August, followed closely by the A1200 version, this *Lemmings*-like game is sure to tease puzzle fans for months. We'll have a full review soon.

## TENSAI GRANDSLAM

This scrolling beat 'em up certainly has an unusual storyline. It's set over 300 years in the future after a nuclear holocaust has devastated the Earth. Some lucky survivors managed to shelter from the horrendous effects of the radiation and have emerged clean but with fantastic telekinetic powers. Others were not so lucky and have mutated into hideous creatures.

Jealous of their former countrymen's health, the mutants set about

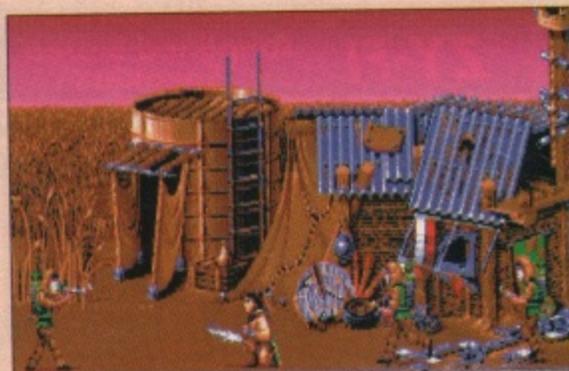
We're back on the *Children of the Corn* set. The game is set to feature realistic sampled sound effects. Wonder what we'll get here? Corn swaying in the wind, heads being lopped off?



'Oh no, it's a re-run of *Children of the Corn*.' Tensai crouches in a farm yard as mutants attack from all sides.

attacking their city. The attack fails but their leader, Arashi, escapes to his stronghold. Many years later a child is born with The Power and it's decided to train him in its use so that he can go out and destroy the mutant leader.

As you've probably guessed you get to play Tensai, the hero with The Power, and guide him through multiple levels of sword swinging, mind blasting action. The game features stylish post-apocalyptic backdrops with eight way parallax



scrolling. As well as giving the many mutants a good kicking you'll have to solve various puzzles and find hidden sections if you want to reach the mutant's stronghold intact. Luckily for you Tensai has The Power, which gives him vast magical abilities, and there'll also be

loads of different physical weapons to pick up.

Judging by what we've seen, Tensai is shaping up well. It's due for a late Autumn release so we'll bring you a full review in a few months.

Even the wildlife is unfriendly. Having not listened to his Mum's warnings about playing near power lines, Tensai gets attacked by the local birds.



# IMPRESSIONS

## BRUTAL SPORTS - FOOTBALL

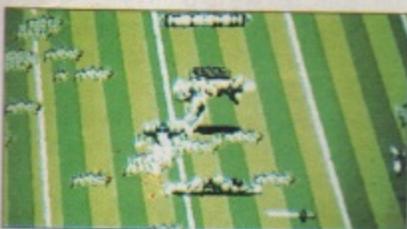
It looks like one player is sneaking off while his team members stomp on the opposition.



### MILLENNIUM

Millennium's second forthcoming release is an altogether less serious, more violent affair. *Brutal Sports - Football* is planned to be the start of a series of futuristic, violent and funny sports sims where the aim of the game is to maim as many opponents as possible.

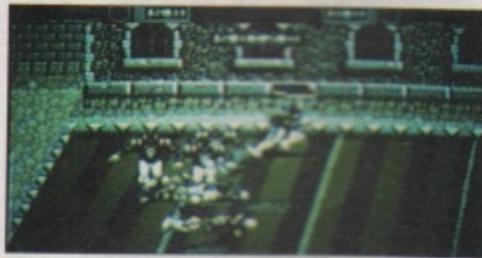
As its name suggests, it's a pseudo-American Football sim, but it bears little resemblance to the game we know today. Two teams of less than human players battle to score goals on a pitch that gradually degenerates into a muddy war zone.



Every player has an energy level which, once diminished, takes some time to build up again. If you make it to half-time you'll get the chance to rebuild your team.

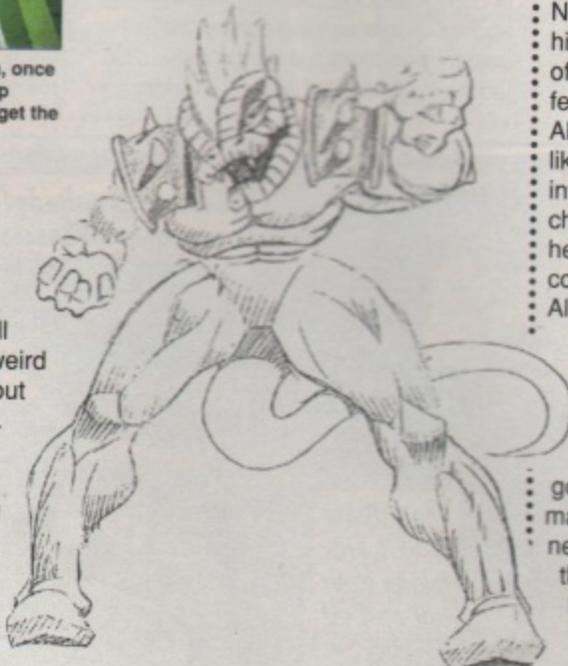
As well as the usual run, jump, catch and throw action there's the opportunity to pick up various power-ups that equip your team with swords, shields and even magical ice that freezes all the opposition. There's also a weird pick-up that makes the ball sprout legs and run into the other goal. Best of all though, if you find the goals piling up against you, you can confuse the other team by decapitating one of them and using their head for a ball!

There will be various leagues to play in and a whole host of different man-



Player one has picked up the sword and is laying into the other team. Heads will roll for this. Literally.

made mutants all with different abilities. Judging by the sneak peek we had, the gameplay is fast and furious with lots of blood and guts spilled (all very tongue in cheek of course). In fact, the guys at Millennium love it so much they're having trouble finding time to do any work. If they manage to drag themselves away the game may be finished by late Autumn.



## REALMS OF DARKNESS

### GRANDSLAM

*Realms* is the next big offering from Grandslam. Billed as the role-playing game for people who hate role-playing games it does seem to offer a strange mix of gaming styles.

Set in the mythical Plains of Darkness, *Realms* is mainly an isometric RPG. I say mainly because it will also offer a side view of cave and building interiors as well as a plan view for detailed combat situations.

The main isometric play area is mutilating (and if anyone can tell me what that means I'll be grateful!) and, if the screen shots are anything to go by, contains some beautifully evocative graphics.

*Realms* follows the adventures of a boy cursed with a long dead Necromancer's soul and his quest to cure himself of the torment he's suffering because of it. Along the way, he's likely to meet many intelligent non-player characters with whom he can have detailed conversations.

Alternatively he can just blast them with a lightning bolt! Progression through the six main plots will be governed by solving the many puzzles and negotiating your way through the vast villages and towns in order to find clues.

As with any RPG

Above: Here we have Stonehenge. What I want to know is where are the hippies or the thousands of policemen stopping them getting close?

there's going to be loads of magic to play with as well as the usual hacking and slaying of various monsters. In addition, there'll be realistic weather conditions affecting the landscape, sun and moon changes and numerous languages to learn.

Judging by what we've seen, *Realms* is sure to offer hundreds of hours of entertainment. It's due for release in September so we'll have a full review soon.



One of the many side on inside shots featured in *Realms*. Looks like the King is none too pleased to see our hero.



Winter has fallen on the Plains. Check out the tower in the distance, this is where the Necromancer's failed experiment took place and he was condemned to eternity in the Void.

>>



## BUBBA 'N' STIX

### Core Design

Bit of a weird one this. Best described as a platform-cum-puzzle adventure, the game's hero, Bubba, has been transported to an eerie alien world with only a friendly alien stick for a pal. But this is no ordinary alien stick. This particular lump of wood is capable of all sorts of acrobatics and in the hands of a skilled user (that's you), it can be made to perform all kinds of tricks and stunts.

Set over seven levels, the game begins with Bubba crash landing on an alien world. From there, he has to traverse its many lands, using the stick to overcome the brain-straining puzzles that block his progress, until he finally manages to find a way back home. On his journey, he has to travel through forests, a derelict space ship, swamps, volcanos, sewers and the like. There are also absolutely tons of aliens to splatter and the graphic artists working

on the game have come up with a quite incredible menagerie of weirdos.

Bubba's friendly stick (known as Stix to his friends) can be used as a truncheon to smash enemy nasties on the bonce with, or as a lever,

snooker cue, tightrope balance, lightning conductor, javelin, baseball bat, handy platform, under-water snorkel, boomerang or any number of zany possibilities. Of course, translating all these uses into on-screen actions has been a major headache for the programming team working on the game. Everything is controlled from one single-button joystick and, although some of the sequences of tugs and fire presses are quite complicated, it's an easy-to-learn system that you'll be able to master in no time. Actions are triggered by joystick combinations, the position of the sprite on-screen and the proximity to puzzle-specific areas, so that the variety of moves and uses the stick can be put to are immense.

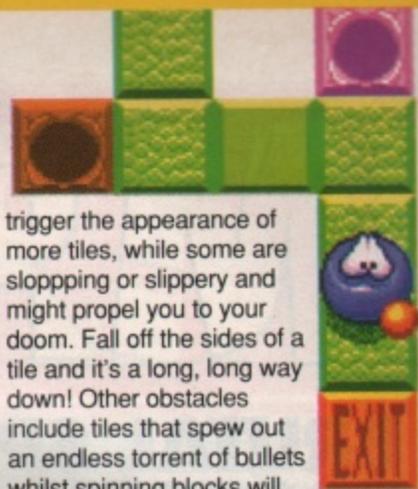
The game is crammed with spot animations, special effects, huge sprites, cartoon sequences and the like, with a whole host of zany sound effects thrown in to accompany the action. If you like your puzzle games hard and a bit left of field, then this multi-level brain-strainer looks like it'll be a welcome diversion from the run-of-the-mill platformers that have been clogging up the charts recently.



## BLOB Core Design

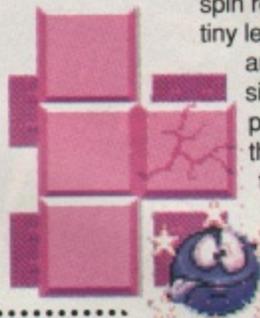
Looking and playing like a cross between *Mad Balls* and *Boulder* (two aging C64 classics), *Blob* is a 3D puzzle game made up of a number of tiled areas set at different heights. The star of the show is a tiny little blob-like creature (hence the name), who bears an uncanny similarity to Putty and other bulbous creations. Blob has to be guided over the multi-storey levels picking up trapped spodlets whilst avoiding all manner of enemy sprites, traps and obstacles. In all, there are 50 levels to navigate, the aim being to collect the required number of spods within a specific time limit. Fail to reach the exit in time and an anti-blob creature appears which chases you about the screen until it squeezes the very life out of your blob.

Not all tiles are the same. Some disappear underfoot, others



trigger the appearance of more tiles, while some are stopping or slippery and might propel you to your doom. Fall off the sides of a tile and it's a long, long way down! Other obstacles include tiles that spew out an endless torrent of bullets whilst spinning blocks will try and mash your sprite into the ground.

While the game doesn't look particularly swanky, Jonathan has spent a great deal of time animating the main sprite so that the our hero can spin round, bare his teeth, shuffle his tiny legs, frown, stick his tongue out and all manner of other expressions. At the moment, he's putting the finishing touches to the game, tweaking the levels so that there is always something to do and the pace and feel of things is just right. Full review next issue.



## SEEK AND DESTROY

### Vision Software

After scoring a massive hit with PD game, *Cybernetix*, and their first full-price release, *Woody's World*, Vision Soft return with an out-and-out blaster. *Seek and Destroy* puts the player in control of a state-of-the-art 'chopper, equipped with all sorts of deadly weapons, and promises nothing but non-stop destruction.

If you cast your mind back to our April issue, you might remember a review of a top PD game called *Transplant*. This fast-paced shoot 'em up was a bit like *Asteroids*, but instead of the ship moving about the screen, the ship stayed in the middle while the screen scrolled and rotated around it. Vision Soft have incorporated such a system into *Seek and Destroy*. Although it's initially off-putting, it soon becomes second nature to have enemy sprites swirling across the screen, and there's a handy radar system to keep track of enemy 'copters.



Things are still at an early stage in the development process, so all we've seen so far is a scrolling demo. Graphically, things aren't up to the standards we've come to expect from the team, but we're promised big changes in the final version. Sonic-wise, too, there's still not a lot to crow about - even the helicopter's whirring rotor blades sound like they've sampled someone banging together a couple of coconuts and speeded things up. Still, it looks like a frantic blast, so keep your eyes out for a review later in the year.

## COLIN CURLY GOES ONE STEP BEYOND



Meanwhile...Colin is having another late night, playing the best computer game in town.

Uh oh...major snak attack comin' on!!!



The intense visuals are taking their toll on Col!

Colin is downloaded into his computer...Whoaaaaaaaaaaaa



EXCELLENT, DUDE!

...but Colin won't be glum for long - he can take One Step Beyond to retrieve his Quavers!



# BATTLE ISLE '93



**The Moon of Chromos**  
The unimaginable has happened: despite his enormous material losses, Skynet Titan has managed to recover and is preparing for a new, final attack. The Drulls and Skynet Titan have both been searching for the vital energy crystals which have become rare on Chromos, and have managed to find some on a moon. But wherever the Drulls try to gain a foothold, they find the enemy has got there before them. Skynet Titan is mobilising his still enormous forces once more. Fighting has already broken out. Can the Drulls emerge victorious from this last battle?

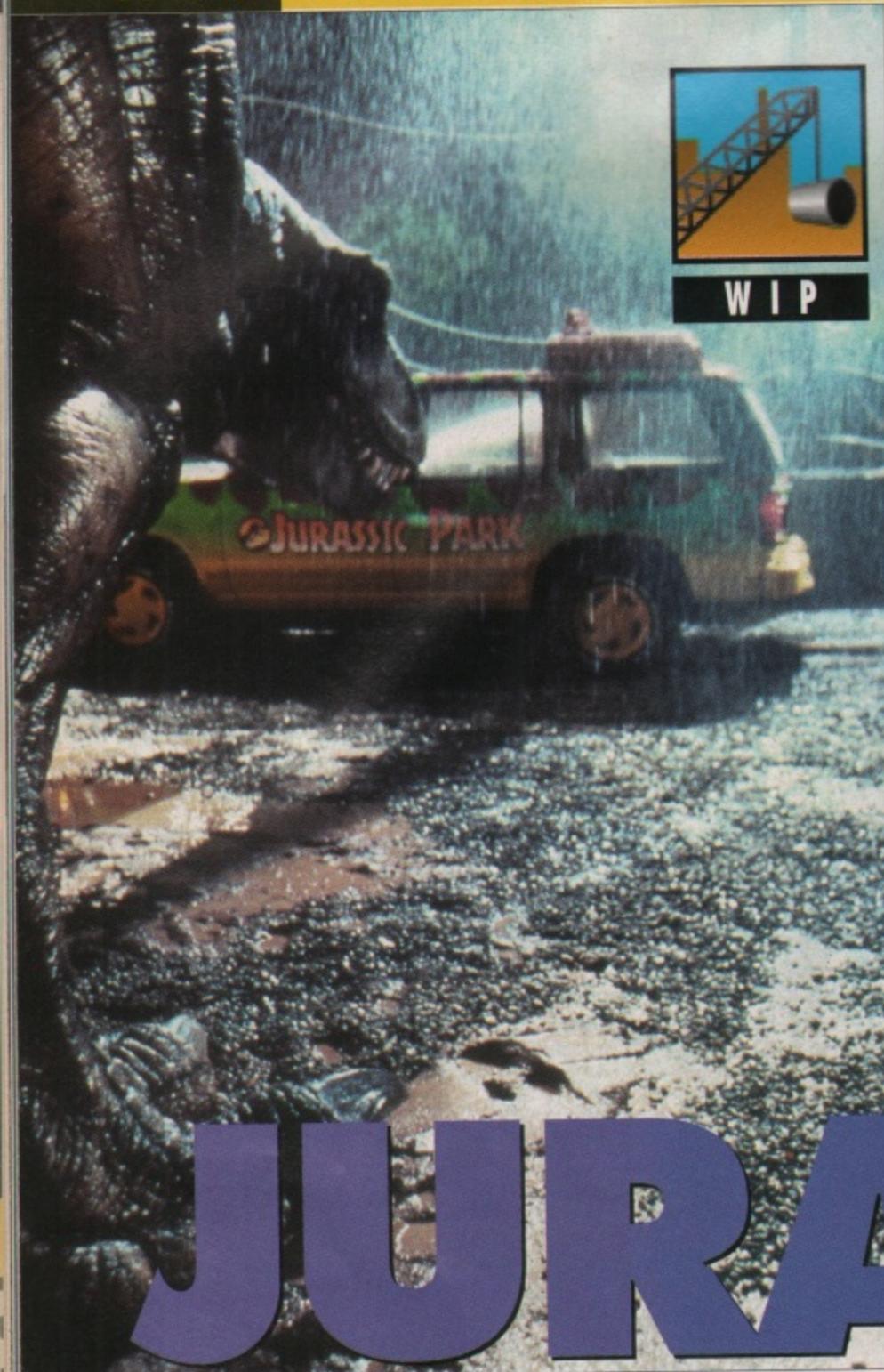
With its new maps, new music and newly created units, this game represents a milestone in strategic simulations. Even the most experienced BATTLE ISLE General will be forced to rethink his strategy in this continuation of the BATTLE ISLE saga, which also includes animated sequences. Like all parts of BATTLE ISLE, this next step into the universe of BATTLE ISLE is designed for 1 or 2 players and can be installed on your hard disk.



Available for Commodore AMIGA & MS-DOS (VGA)  
Kompart UK Ltd. • 20 Guildford Road • AL1 5JY • St. Albans, Herts. • 0727 868005

**TOI ZOE!**  
**BEAT THE GHOSTS**  
Coming soon for Amiga & PC





From the depths of time and Ocean's Manchester offices comes the game of the movie of the book. Jon Sloan goes behind the scenes for a sneak preview of the action...

**O**K, so you know it's a film about dinosaurs, but what's it all about? Well, here's a quick run down of the screenplay.

The plot centres around a soon to be opened theme park on a small South American island. Utilising brand new genetic engineering techniques scientists have used dinosaur DNA found in a prehistoric amber-encased mosquito to recreate living dinosaurs. The Park's owner, John Hammond, has invited an eminent team of scientists in order to give it the official seal of approval. Unfortunately, things go wrong (don't they always?) and the Park's security system breaks down just as a hurricane hits the island. In the resulting confusion the dinosaurs are released and they're hungry for flesh...

**PLOT TRANSFER**

Preproduction on the film started in August 1992 with principal filming commencing on location at Kauai. In a funny quirk of fate real life followed fiction when Hurricane Iniki devastated the island. Fortunately most location filming was finished by then and the crew returned to Los Angeles, where five enormous sound stages were waiting for them. It was here that the special effects team really came into their own. To make the dinos look as realistic as possible ace Director Steven Spielberg assembled a team of film special effects wizards considered to be the best in the industry; these included Stan Winston, Dennis Muren, and Michael Lantieri, plus loads more from Industrial Light & Magic. These guys have worked on such amazing films as Terminator 2, Aliens and Star Wars so it's unlikely that the film will flop.



# JURASSIC



Top: Grant takes on the baby T-Rex. The team have still to decide whether or not Grant will be able to kill the T-Rex. Even if the answer is yes it's likely that the only weapon capable of doing so will be well hidden.

Right: One of Grant's earlier encounters with the vicious Velociraptor comes here. Fortunately, the electric fences are still working!



**STARRY EYED**

Instead of attracting a high-profile cast (and incurring outrageous fees) Spielberg has gone for a second-tier human cast. Perhaps he reasoned that it would be the inhuman cast that would be the big draw. Anyway, here's a list of who plays whom.

**DR ALAN GRANT**  
 Played by: Sam Neill  
 The main star, Dr Grant is a paleontologist attracted to the Park by the prospect of seeing his life's work for real and to validate the quality of the dinosaurs.

**DR ELLIE SATTLER**  
 Played by: Laura Dern  
 Sattler is a paleobotanist and Grant's

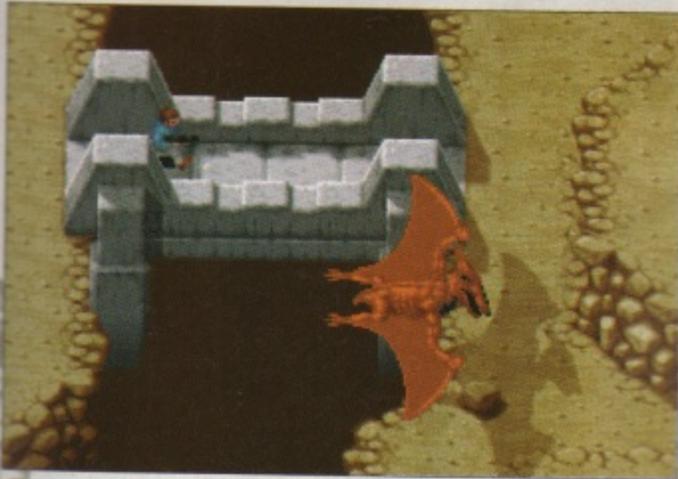
co-worker. She's here to take a look at the plant life that's been recreated at the Park.

**JOHN HAMMOND**  
 Played by: Sir Richard Attenborough  
 Hammond is the multi-millionaire genius behind the Park. He's the guy that had the idea of creating a theme park composed of dinosaurs.

**DR IAN MALCOLM**  
 Played by: Jeff Goldblum  
 As a professional mathematician and chaos theorist Malcolm has been hired to look at the systems at the Park to predict how they'll react to one another. He predicts disaster due to the unpredictable and complex interactions between the natural organisms.

**TIM**  
 Played by: Joseph Mazzello  
 Tim is Hammond's nine-year-old grandson and an avid dinosaur enthusiast.

**LEX**  
 Played by: Ariana Richards  
 Another of Hammond's grandchildren, this 12-year-old's computer skills may come in handy in getting the park back on line.



Jurassic's animators have gone to great pains to ensure that everything looks good. That even goes as far as giving the Pterosaur a shadow which moves realistically over the landscape.

But we'll have to wait until July 16th, when the film is released here, to make up our minds.

**GAME CRAZY**

That's the film, but what about the game? Manchester-based publishers, Ocean, eagerly snapped up the rights to the PC, Amiga and Nintendo versions and have been busily assembling the biggest development teams in their history to ensure that they make the game a success, too. Ocean's software director, Gary Bracey, views this license very differently. 'It's a once in a lifetime kind of thing. We want to make it unlike any other license that

we've ever produced.' He's so enthusiastic about the project that it's hard to shut him up! 'This is Jaws with dinosaurs. This isn't just a film anymore - it's an event.' This time, though, his enthusiasm is justified.



Visually the game is very different to the earlier Ocean games - there's no driving section and puzzle sub-games for instance! Instead, what the 13-man team have come up with is a sort of Chaos Engine-style isometric arcade adventure with various 3D sections, very reminiscent of Legends of Valour, thrown in for good measure. You get to play the hero, Grant, as he frantically crosses the

Park in an attempt to rescue Hammond's two grandchildren from the marauding monsters.

This may seem like a strange mix of game styles but from what we've seen it works well. The coders themselves are pleased with their results. Andrew Miah, one of the four main coders, is quick to point out the changes they've made. 'The 3D is unlike anything you've seen on the Amiga before. The graphics window is about three or four times bigger than Legends of Valour's and running twice as fast.' In fact, Matt Wood, one of the co-designers, likens the whole thing more to Cadaver with lots of puzzle elements creeping in to the blasting action. It has to be said though that Jurassic bears more than a passing resemblance to another Bitmap's game - The Chaos Engine. Matt leaps quickly to their defence. 'We first saw The Chaos Engine when we were part of the way through coding Jurassic Park and thought "Oh dear, it's going to look the same" but it looks a lot different when you see it moving.' To be fair that's true as the isometric section has a more realistic feel to it with the characters actually able to walk behind objects. You needn't worry about getting lost though as the backgrounds have been carefully designed so you'll be able to see the sprites through breaks in the leaves and vegetation.

**ACTION!!!!**

Work started last November on an A500 platform due to the lack of availability of A1200 development kit, however when they got hold of one they transferred all development onto it. This means that we'll have to wait a little longer for the A500/A600 versions to appear. A1200 owners are in for a treat though as, apart from the obvious colour improvements, it will run much faster with the top-down bits scrolling at 25 frames per second. The 3D section too will be improved with all surfaces texture mapped. This part of the game is chock full of nail-biting atmosphere. This has been enhanced with a thumping sound track incorporating a heart beat which races when you're being chased. In an unprecedented move the coders were provided with a DAT of actual sounds from the movie to use in their soundtrack. This works to great effect as the T-Rex's approach is preceded by a distant ground shaking rumble before it screams onto the monitor to chase Grant.

Jurassic Park - The Game looks like it will live up to the precedent set by its big screen brother. Watch out for a full review soon. **CU**

The baby Triceratops is guarding its sick parent. The puzzle element comes to the fore here as Grant must find something to distract it.



**PARK**



The guys spent many hundreds of hours consulting reference works and even watching how Ostriches run to try to get the dinosaur's movements as smooth as possible.

**THE INVASION OF THE DINOSAURS**

In case you hadn't noticed it, Joe Public (that means you) has harboured a fascination for dinosaurs which started long before Spielberg's new baby was even a gleam in his eye. Try this little test: Pay close attention to the media world around you for one day and I bet that a dinosaur unrelated to Jurassic Park will make an appearance. Whether it's on TV on a show (The Dinosaurs), a cartoon (The Flintstones), or in a comic book (2000AD's Flesh series), or a re-run of some earlier dino-movie (from Godzilla to the god-awful Land Before Time films) you're bound to find some evidence of the existence of dinosaurs. If you switch off the TV there's no guarantee that you can avoid the invasion of the dinos, especially if you have a younger brother or sister. Every little kid has possessed some kind of dino toy at one time or another. In my day it was simple plastic models, lately they've gotten more sophisticated with the introduction of soft toys, called DinoRoars, that let out a cute roar when squeezed. Let's face it, dinosaurs are everywhere.



**MONEY MACHINE**

It will probably come as a surprise to learn that the film is only the tip of the iceberg as far as profits go. The real money is going to come from all the thousands of spinoffs, of which Ocean's game is but a small part. Apart from the various video games there's toothbrushes, action figures, soap, burgers, sweets, duvets, and even underwear. There's even a Jurassic Park credit card. Presumably to use to buy all the rest of the Jurassic Park goodies. Incredible!! The current largest grossing film of all time, in terms of license spinoffs, is Batman. That brought in an incredible \$1 billion worldwide and MCA/Universal (Jurassic's owners) predict that the ultimate total for Jurassic could approach, if not exceed, that jaw-dropping figure. The key to achieving this is to keep the product in the public eye for a long period of time. MCA/Universal intend to do so by keeping the theatrical release as long as possible and then follow it up with a video; there's even the possibility of a TV series, a theme park and the inevitable sequel. Whilst it's unlikely that the non-human stars will make as much of an impact as the Ninja Turtles we're still going to see and hear a lot from T-Rex and his friends over the coming years.

# PUBLIC DOMAIN SOFTWARE

A500/A600/A1200 COMPATIBLE

Don't let our small advert deceive you! We are in our second year of trading & have a large selection of software. Why not send a stamp for our

## FREE PRINTED CATALOGUE

Or 85p for disk version (listing a1200 compatibility)

### OUR TOP PD GAMES

99p per disk or ONLY £4.75 for all 5

- PG103 - Super Pacman '92
- PG106 - SL Manager (Football Management)
- PG134 - PFPD Games Croak, Maze, Nebula, Mr Wobbly, & Qbic
- PG 41 - Wizzy's Quest (A great platform game)
- PG129 - Amos Cricket (great fun)

### A1200 OWNERS PACK

5 essential disks for owners of the new Amiga

5 disks Only £4.75

- KICK 1.3 (solves most compatibility problems)
- WB 3 SCREENS (customise your workbench)
- AGA pictures (see just what your machine can display) AGA TETRIS (one of the first A1200 specific games) WINBLEND (create 256 colour fractals)

#### PLEASE NOTE:

Apart from the A1200 pack all the programs above are A500, 500plus, A600 & A1200 compatible

### BEGINNERS PD PACK

Amibase (database) Textplus (wordprocessor)SID2 (file management made easy)

D Copy (disk copier), The Money Program (home accounts)

5 disks to get you started ONLY £4.75

NEW TITLES - ONLY 99p each

- PD 118 - Hol Demo - The first AGA demo (AGA only)
- PG 164 - Top of the League - (Football Management)
- PG 181 - Captain Bonus - (The PD equivalent of Another World)
- PG 168 - American Football Coach
- PG 170 - Tetren (probably the best PD version of this classic)
- PU 131 - Adventure Creator (write your own game)
- PG 186 - Solitaire Sampler Card Games Galore
- PG 187 Alien Bash Shoot Aliens & rescue prisoners

#### POST & PACKING

Orders under £5 please add 60p  
Orders over £5 FREE

(CU) 41 Marion Street,  
Bingley West Yorkshire  
BD16 4NQ  
0274 565205  
(9.30am to 5.30pm)

Cheques payable to:

## PATHFINDER PD

# SEASOFT

The Logical Choice

NEW - OCTAMED PRO V5 - £30.00

Brilliant new version of this famous 8 channel music editor with a totally new look - PULL DOWN MENUS, ON-LINE HELP, FULL MIDI SUPPORT WITH UPTO 64 TRACKS, SAMPLER EDITOR, DISPLAYS STANDARD TRACKER OR TRADITIONAL STAVE NOTATION ETC.ETC. (REQUIRES KICKSTART 2 OR LATER)

**AM/FM**  
Disk based magazine for Amiga musicians Issue 13 now out!  
**£2.50**  
(1-12 also available)

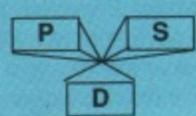
**ACC**  
Amiga coders club hints, tips & tutorials for all assemble language programmers  
**£3.50 per issue**

**CATALOGUE DISK**  
**£1.25 (inc p&p)**  
**FREE!**  
with  
**first order**

**ACC**  
The best of issues 1 to 4 on a single p.d. volume  
**£1.50**

**FRED FISH 1 TO 850**

Established 1990



MEMBER OF THE PROFESSIONAL STANDARDS OF DISTRIBUTION

### C.L.R. LICENCEWARE

1 disk titles £3.50, 2 disk titles £4.50, 3 disk titles £4.99 (No. of disks shown in brackets)

- TYPING TUTOR (1) - complete course & speed test
- JUNGLE BUNGLER (1) - kids adventure game
- FUN WITH CUBBY (1) - 8 educational games for kids
- POWER ACCOUNTS (1) - keep track of your bank a/c
- PLAY IT SAFE (1) - teach kids about safety
- TIME RIFT (1) - excellent platform game
- NIGHT SKY (1) - a must for all stargazers
- ACHORD (1) - guitar chord tutor
- CHORD COACH (1) - Piano chord tutor
- WHITE RABBITS (1) - save the bunny puzzle game
- PRINTER FONTS - LC1020(1), 24 PIN(1), CANON BJ(1)

### EDUCATIONAL ENCYCLOPEDIAS

The following disk based encyclopedias cover a range of interesting subjects. Using text, diagrams, drawings & photographs each title is entertaining as well as educational.

- DINOSAURS(2), GEOLOGY(2), SOLAR SYSTEM(3)
- MESSERSCHMIT BF109(2), FRESH WATER FISHING(2)
- ECOLOGY(3), YOUR FIRST PONY(2), SPITFIRE(2)

### NEW - SOLAR SYSTEM 2 (3) - NEW

The brilliant follow up to the best selling original

ALL OTHER CLR TITLES AVAILABLE

### LATEST P.D.

- V-MORPH (1) - create smooth morphs & warps
- KICKSTART 2 (1) - run dos 2 progs on your 1.3 Amiga
- NUMPAD (1) - adds numeric keypad to an A600
- KICK 1.3 (1) - run old A500 progs on A600 & A1200
- HOI AGA DEMO (1) - brilliant A1200 only demo
- PC TASK V2 (1) - latest PC emulator
- AGA TETRIS (1) - classic game & AGA utilities
- UCHESS (1) - ultimate AGA chess prog (needs 4 meg)

PD prices (per disk) 1-4 £1.50, 5-9 £1.25, 10-24 £1.00 unless otherwise stated all titles work on A500, A500+, A600, A1200 Please add 50p to all orders for P&P

### SEASOFT COMPUTING

(Dept CU), The Business Centre  
First Floor, 80 Woodlands Ave  
Rustington, W Sussex BN16 3EY

**Tel - (0903) 850378**

9.30 am to 7.00pm Mon-Fri (to 5pm Sat)

**AM/FM**  
High quality sample ideal for octamed et disk 13 now out!  
**£2.50**  
(1-12 also available)

**A-GENE**  
the latest version (V4.34) of the best genealogical database available for the Amiga  
**£15.00**

**CD ROMS**  
CDPD 1 - £19.95 (Fred Fish 1 to 660 etc)  
CDPD 2 - £19.95 (Scope, Jam & more Fish)  
Demo CD - £19.95 (Packed with demos)  
17 Bit - £39.95 (an instant pd library of this brilliant 2 disk collection)

**LATEST ASSASSINS GAMES DISK CALL FOR LIS**

**T-BAG 1 TO 77**

# BLITTERSOFT

(DEPT. AC) 40 COLLEY HILL, BRADWELL, MILTON KEYNES, BUCKS. MK13 8EL

## EMPLANT

Electronic Micro-Processor Level Amiga Native Task

Amazing MODEM deal!  
US Robotics Sportster  
Fax/Modem V.32 bis 14400.  
Fully BAPT approved!  
£294.95!!

**THIS REVOLUTIONARY BOARD IS NOW AVAILABLE AND IS RECEIVING EXCELLENT PRESS. JUST LOOK AT THE FEATURES!**

- ☆ Multiple emulations from the one board (reduces cost and saves on Zorro slots!).
- ☆ Currently shipping with the most sophisticated MAC emulation available.
- ☆ Mac emulation boasts full colour (16 standard, 256 AGA, 1.6 Million with RETINA, with other graphics card support to follow) and it multi-tasks!
- ☆ Supports Hard Drives (via on-board SCSI or AmigaDOS partitions), MAC 800K (via SYBIL), MAC/IBM 1.44Mb IBM 720K, EMPLANT and AMAX formats.
- ☆ Support for AppleTalk/Serial ports, Printers, Modems, Midi etc.
- ☆ Supports SyQuest, Any AmigaDOS device (DH0:, RAD:, VD0: etc.), Scanners etc.
- ☆ Emulation speed is comparable to the real machine and compatibility is excellent.
- ☆ The IBM 386/486 emulation is under development, with Atari ST/Falcon, C64/128, SNES/SEGA (among others) all planned in the future.
- ☆ Currently supports any Zorro bus Amiga (A500/A1000 via suitable Zorro bus adapter such as Slingshot, with A600/1200 PCMCIA version to follow).
- ☆ Requires 68020/30/40 with 4Mb RAM recommended. (The MAC emulation requires 256K MacII/x/cx/SE30 ROMs).
- ☆ The EMPLANT can also provide 2Mb battery-backed static RAM!
- ☆ Additional features being added all the time. We provide full UK support and free Mac upgrades. A UK support BBS is imminent.

**EMPLANT DELUXE - £349.95**

(Includes AppleTalk/Serial ports/SCSI Interface)

**SYBIL HARDWARE - £59.95**

"Compatibility is excellent. Every Mac program I tried worked with no problems."  
Amiga Computing - July 1993  
"SPEED - As fast as the equivalent Mac, whichever Amiga you use - 85%"  
Amiga Format - July 1993

## AMIGAS

Superb prices on the complete range of top end Amiga computers. We believe these represent the lowest priced performance Amiga's to be found!

A4000/030 25MHz, 4Mb RAM, 80Mb Hard Drive **ONLY £914.95**

A4000/030 25MHz, 4Mb RAM, 120Mb Hard Drive **ONLY £999.95**

A4000/040 25MHz, 6Mb RAM, 120Mb Hard Drive **ONLY £1959.95**

A1200 14MHz, 2Mb RAM, AGA CHIPSET **ONLY £374.95**

A1200+85 14MHz, 2Mb RAM, 85Mb Hard Drive. With warranty intact!  
**ONLY £584.95**

### RETINA

This amazing little board offers 24-bit graphics and even has a free 24-bit paint package! Supports many monitors for superb crisp displays. EMPLANT now supports RETINA for a 16.7 million colour Macintosh!  
RETINA (1Mb VRAM) £334.95  
RETINA (2Mb VRAM) £384.95  
RETINA (4Mb VRAM) £459.95  
Less £10.00 if bought with any EMPLANT board.

## NEW AMIGA MONITORS

Two brand new multi-scan monitors from Commodore for the new range of Amiga's. Both have tilt/swivel base, stereo speakers and can display all the new Amiga screen modes.

1940 (With .39 dot pitch) **£289.95**

1942 (With .28 dot pitch) **£379.95**

ORDERS TAKEN NOW!

## HIGH DENSITY DRIVES

You no longer need an A4000 to use high density floppies. ANY Amiga with WB 2.04 or higher can use these units. HiDex floppy drives feature CBM's approved high density mechanisms and a full 1 year warranty. They perform as 880K drives and support all A4000 compatible applications. They come in a sturdy, complementary coloured metal case. Available NOW!

EXTERNAL MODEL **£124.95**

INTERNAL MODEL **£104.95**

Please state 2000/3000 for internal.

HOURS:  
MON-FRI 9.30 to 5.00  
SAT 9.30 to 12.30



ORDER/INFORMATION LINE CALL  
**(0908) 220196**



24 HOURS FAX  
ORDER/QUERY LINE  
(0908) 220196

**EDITMAN**

**DTV  
STUDIO**



**from  
£399**

# CHANGE TO EDITMAN NOW!

**THE ONLY 3 M/C EDITOR THAT ACTUALLY WORKS**

More and more Video editing enthusiasts are turning to the new EDITMAN models as used by the professionals?... Fed up with stand alone editors?... Disillusioned with other computer editors?... How many more edit controllers will you end up buying?... We do not make crazy claims about EDITMAN, but what we do offer is a genuine PROFESSIONAL BASED SYSTEM, PROFESSIONAL OPERATION and a PROFESSIONAL ACCURACY that quite simply leaves most professionals ASTONISHED! We offer you an EXPANDABLE system that will grow with YOUR needs... The simplest AND easiest system available... NO COMPUTER KNOWLEDGE REQUIRED... Who else offers a choice of Amiga, PC, Macintosh, Atari and Archimedes models?

- NO NEED FOR TIMECODE... FOR PROFESSIONAL PERFORMANCE!**
- NO NEED FOR VCR MODIFICATION... NO WARRANTY DIFFICULTIES!**
- NO OVERSEAS PROGRAMMERS... UK PRODUCT!**
- UK DESIGN AND VIDEO KNOWHOW... UNIQUE EXPERTISE!**
- EXPANDABLE SYSTEM - OPTIONAL INTERFACES FOR SCALA, OPALVISION**
- PROGRAMMABLE FADES... DISSOLVES... WIPES... GENLOCKS...**
- VIDEO FX, ARE TYPICAL OPTIONS... WITH MANY UNIQUE PERIPHERALS!**

**AMAZING MODELS TO SUIT  
EVERY TYPE OF EDITOR...**

CONSUMER - EDITMAN super  
 PROSUMER - EDITMAN sp  
 PROFESSIONAL - EDITMAN pro  
 BROADCAST - EDITMAN pro

EX300/400 series  
 EX500/600 series  
 EX700/1000 series  
 EX800/1100 series

**AND MORE TO COME!!!**

**LOW COST EX100/200 MODELS**

**WE ALSO MAKE GENMAN - AN AMIGA GENLOCK!... THE BEST GENLOCK FOR DTV USE, INCLUDING S-VHS MODELS, DEMO TAPE AVAILABLE**

**★ JULY PART EXCHANGE OPTION ★**

**OUR 3 MACHINE EDITORS - SAVE YOU £500! TEL 0332 298422**

Syntronix DTV Systems, Burlington House, Prime Industrial Park, Shaftesbury St, Derby DE3 8YB. Tel: 0332 298422



# BLADE OF



**Strapping on his mighty weapon, Jon Sloan steps into a world of beautiful warriors and brave women... or should that be the other way 'round?**

to restrict you to a linear progression. Amazingly that's not the case. Your hearty band is free to travel and do almost anything and needn't follow a set route to achieving its ultimate goal. It's this freedom that makes *Blade* so wonderfully appealing. Your travels through the Realm will take you to many towns and villages looking for clues to the sword's location. When visiting you're bound to come across intriguing tales of local monsters that no self-respecting adventurers should ignore. These sub-plots not only serve to prolong the main game but also give it an

added level of realism. And realism is a theme carried through the whole game – you actually believe that this place could have existed.

It's an established standard for this genre that you should view the action in 3D from the first-person perspective and, in that respect, *Blade* is no different. Although this can be a graphically exciting means of playing it can also be very limiting. For instance, other than sticking the warriors at the front tactics are difficult to execute. *Blade* has recognised those faults and offers a second viewpoint when you get into battle.

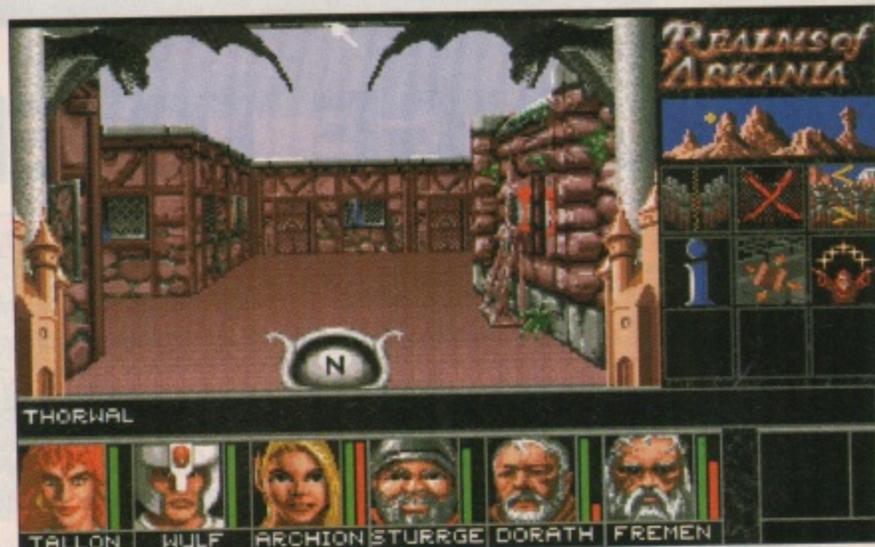
**T**he Amiga role-playing market is pretty tough to break into successfully. What with the amazing *Eye of the Beholder* series and, more recently, *Legends of Valour*, the standard of this genre has risen dramatically since its early days. There are quite a few hot games out there and RPGers are a choosy bunch.

Into this arena strides *Blade of Destiny*. Converted from Germany's number one role-playing system, Das Schwarze Auge (literally, The Black Eye), *Blade* is the first of the Northern Territories Trilogy. Set in the Realm of Arkania it's filled with strange characters with even

stranger names, like Sir Shaun of Crispy (I kid you not) and Alrik v. Angbar. It tells the tale of a famous sword lost in the lands of the Orcs and of a brave band of adventurers who set out to find it. Actually, it's a little more complex than that, but you get the idea.

## WHAT A BIG ONE

The first thing that strikes you about *Blade* is the sheer size of the map of Arkania – there's over 184,000 square miles of territory and more than 80 towns to visit, not counting the numerous hidden dungeons! With a play area this size it would be an easy cop out for the programmers



The town graphics do not bear comparison to the superlative *Legends of Valour*, but the auto map is useful for finding your way round the place.

## CLASSY CHARACTERS

With 12 character classes available chances are that you'll find one close to your perfect image of what an adventurer should be. It's a good idea, though, to go for a finely balanced team of six heroes. It's no good facing up to a 50-foot dragon with six pickpockets! Try to get an even mix of fighters, magicians, rogues and hunters. That way the team should be prepared for most eventualities.



Jesters are all-round characters with experience of both wilderness and town survival techniques.



These guys are the barbarians in the game. Renowned for their love of drinking and fighting, they also make great sailors and explorers.



Masters of armed combat, warriors are useful in a fight. They are the only class able to handle the two-handed sword.



Missile weapons and tracking skills make Hunters great for fights on the road. You'll never be short of food with one of these in the team.

# DESTINY



There are many houses to visit, but few occupants will give you the time of day if you don't know them. Better beat it fast before he calls the town guard.

Character's name, class, experience, etc. Backpack, you can carry up to 16 items.

Main statistics. You'll find all the usual ones here plus some different ones like avarice, curiosity and necrophobia.

## WELL EQUIPPED

No well dressed adventurer should even think about venturing out into the wilderness or deep into some dank dungeon without taking his weapon. That's not all either, in *Blade*, just like real life, if you plan to spend the night comfortably under the stars it's wise to carry a bedroll, plus food, plus water, plus... well the list could be endless.

Having played a good range of RPGs over the years I think that it's safe to say that *Blade* offers you the largest choice of equipment and weapons ever. There are some weird and esoteric swords, a range of axes, plus rope ladders, shovels and some pretty nifty snow shoes.

What you eventually decide to take is entirely up to you, but there's a lot of factors to consider that don't normally make an appearance in other RPGs, including weather, terrain and wild animals.

## ALTERED STATES

This changed view has allowed the graphics artists to have a field day, too, with every spell cast accompanied by an appropriate explosion or effect and, considering there are over 70 spells to choose from, that's a helluva lot of animations. This spell system must be the most comprehensive ever with spells for just about every situation from turning solids to liquid to blinding opponents with a lightning flash. Physical combat has been developed well, too, with fighters given the choice to guard, parry and attack at one of three levels of commitment. That realism I was mentioning earlier comes into play here with players able to fumble attacks and weapons and armour prone to breaking right in the middle of a pitched battle with 10 Orcs. It's a pain when it happens but overall it's tremendous fun. On the subject of pain your characters not only sustain weapon damage, but they can also catch a disease or get infected wounds!

Before I explode from using too many superlatives I've got to tell you that *Blade* does have its flaws. The graphics are far below what we have come to expect from this type of game. Whilst the static screens are very detailed and colourful the 3D ones are not. Dungeons are especially difficult to negotiate as the walls are a nauseating shade of blue

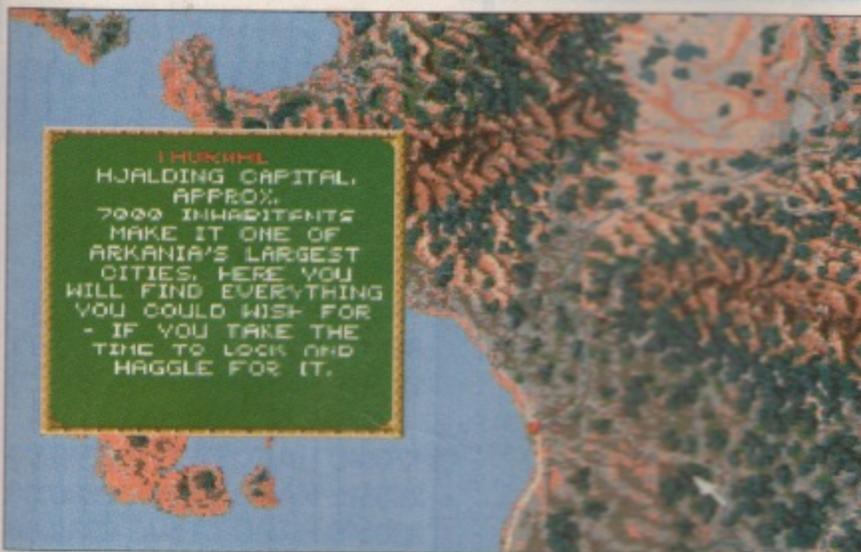
Travel between towns is easy to do but difficult to carry out safely. Simply find a signpost in town and this map screen will pop up. Click on a location to get info then travel there.

In a fight situation the screen shifts to an isometric perspective very similar to that in *The Immortal*. Whilst *Blade's* graphics are nowhere near as good as those in *The Immortal* it is a brilliant way of organising battles. You can execute some high level tactics placing fighters, magicians and archers in appropriate positions. It's even possible to split the party into smaller groups and have your most perceptive characters scouting ahead for the many floor and ceiling traps that litter the dungeons.

Name of currently selected item.

Character's weight. Character's height.

Secondary statistics. Here your attack and parry values and all important movement points are located.



HJALDING CAPITAL, APPROX. 7000 INHABITANTS MAKE IT ONE OF ARKANIA'S LARGEST CITIES. HERE YOU WILL FIND EVERYTHING YOU COULD WISH FOR - IF YOU TAKE THE TIME TO LOOK AND HAGGLE FOR IT.



In a town, Rogues come into their own. Whether it's for picking pockets or locks they're a vital component in a balanced team.



Pandering to stereotype, Dwarves are short, like fighting and drinking and are excellent underground.



Masters of non-book magic, Witches are also skilled at evaluating humans and are very intuitive.



Apart from controlling the forces of nature Druids are capable of summoning and controlling demons.

## AMIGA 4000

68030 25MHz CPU, Slot for processor, 80 or 120Mb IDE HD AGA Chipset, Workbench 3 1 year on site warranty 2 Mb RAM Models, 1.7Mb High Density, 3.5 Disk Drive 4x Amiga Zorro III expansion slots 3 of these are also PC/AT slots

**A4000 030 170HD**

2Mb RAM  
**£1000**

**A4000 030 220HD**

2Mb RAM  
**£1050**

**A4000 030 256HD**

2Mb RAM  
**£1100**

**A4000 Fast RAM**

2Mb RAM **£120**  
4Mb RAM **£150**

Ram available next month.

## AMIGA 1200

**A1200 COMIC RELIEF PACK**

**£375.00**

**A1200 above with 85Mb HD**

**£570.00**

**A1200 STANDALONE**

**£357.00**

**A500 TRADE IN**

**£120.00**

**A600 TRADE IN**

**£120.00**

**A1500 TRADE IN**

**£150.00**

**A2000 TRADE IN**

**£150.00**

**A3000 TRADE IN**

**£300.00**

**TRADE IN PRICES VALID ON R.R.P OF A1200 ONLY**

## AMIGA 600

**ENTRY LEVEL COMMODORE A600 STANDALONE**

**£185.00**

**A600 W.W.W PACK WITH 40MB HD**

**£299**

1 Mb Ram Upgrade £45  
2 Mb PCMCIA Ram Card £109  
4 Mb PCMCIA Ram Card £150  
VLAB external for Amiga £349

## AMIGA/PC1500

1 Amiga A1500, with one megabyte 2 Floppy drives, Fully expandable, PC Bridge Board, Video Slot, Word processor, Database, spreadsheet, Home Accounts, Dulux Paint3, Amiga Vision, plus three games. This system is ideal for home accounts or small business

**£390**

**Add £170 for monitor**

## AMIGA 500

**Cartoon classics**

**£189.00**

**A590 20Mb hard drive**

**£179.00**

**Gvp 42Mb Hard Drive**

**£249.00**

**A570 CD-ROM Drive**

**£139.00**

**External drive £49**

## Acc/Soft

**VIDI AMIGA 12:£75.00**

**Video backup :£59.00**

**Lynx :£59.00**

**Arena accounts:£79.00**

**Home accounts:£34.00**

**Gigamem :£60.00**

**Dpaint AGA :£80.00**

**VLab Y/C :£340.00**

**ImageF/X :£195.00**

**Amiga Vision :£50.00**

## PARNET CABLE

Allows a network link with two Amigas via the parallel port. Instructions come with disk. Works with all Amigas! Connect to a CDTV to access data on a CD-ROM from your Amiga.

1.8 Mtr Cable **£20.00**  
3.0 Mtr Cable **£35.00**

## CD-ROM SWITCH

A CD-ROM SWITCH, is a cost effective method of allowing you to use the full 1mb Chip RAM supplied with your CDTV. Birds of Prey, Formula1GP, Knights of the Sky or any other true 1 megabyte program will now run with no problem. Plus free Pandoras CD to 1st 10.

**CD-ROM SWITCH £25.00**

## CD-JOY

The CD-JOY was designed to allow CDTV owners the use of up to two ordinary Joysticks or one mice. The CD-JOY is an internally fitted interface, this means opening your CDTV to install. Free Pandoras to 1st 5 customers quoting this number CD32

**CD-JOY £25.00**

## AMIGA CD 32

Yes! the much rumored eagerly awaited Sega(tm) and Nintendo (tm) Stopper is now here. Specially enhanced AA Chip set and processor, 16.8 million colour palette. Free game and joypad controller.

**£289.00**

## CD FORMAT

CD FORMAT is changing its' name. Hence forth its' new title will be CD GOLD. So, what is CD GOLD? If you own an Amiga CDTV or an Amiga with a CD-Rom, then you will find CD GOLD invaluable as a source a up to the minute reliable information on your machine. Be it A570, CDTV or any new CD based machine commodore may release in the future. CD GOLD is the worlds first multimedia magazine on compact disk designed for Amiga CD users. CD GOLD has much the same structure of any other magazine designed for Amiga users but with major advances over paper based variants. Interviews are all live, more free software, more playable demos, see hardware projects constructed before your very eyes. Talk to Amiga CD-Rom experts like Jolyon Ralph and Jim Hawkins and many more. Prepare for the next leap forward in Amiga Technology Buy your Copy of CD GOLD now! The Pilot issue will be available in August. So if you have any questions regarding your machine that you would like answered by the experts or if you have any ideas or programs that you would like to be included then why not send them in to us and we will squeeze them into the first issue.

**ORDER FORM**

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

Please reserve me a copy at £10 Make Cheques or Postal Orders payable to "GOLDTECH COMPUTER SYSTEMS"

## CDTV TITLES

CD GOLD	£10.00
17 BIT COLLECTION CD:	£39.95
AIR WARRIOR:	£34.95
CDPD :	£19.95
CDPD2 :	£19.95
DEMO CD :	£19.95
DINOSAURS FOR HIRE	£14.95
FRACTAL UNIVERSE	£29.95
Hutchinson Encyclopedia	£9.99
LEMMINGS :	£9.99
PREHISTORIK :	£34.95
PREY	£29.95
SHERLOCK HOLMES	£39.95
TRIVIAL PURSUIT	£49.95
TURRICAN 1	£29.95
TURRICAN 2	£29.95
GUY SPY	£29.95
SPACE WARS	£29.95
PANDORS CD	£4.99
Alistair In Outer Space	£24.95
BATTLE CHESS	£39.95
BATTLE STORM	£29.95
TEAM YANKEE	£34.95
Town with No Name	£29.95
MUSIC MAKER	£34.99

## CDTV TITLES

A BUN FOR BARNEY	£29.99
WORLD VISTA	£44.99
JAPAN WORLD	£49.99
KARAOKE HITS I	£14.99
KARAOKE HITS II	£14.99
MIND RUN	£14.99
FUN SCHOOL 3 U5's	£24.99
FUN SCHOOL 3 5-7	£24.99
CDTV FOOTBALL	£39.99
CLASSIC BOARD GAMES	£24.99
All Dogs go to Heaven	£34.99
American Vista Atlas	£54.99
Barny Bear Goes to School	£29.99
CASINO GAMES	£29.99
European Space simulator	£34.99
North Polar Expedition	£49.99
SUPER GAMES PACK	£19.99
Heroic Age of Spaceflight	£19.99
Wrath of The Demon	£19.99
XENON 2	£29.99
ULTIMATE BASKETBALL	£29.99
TIE BREAK TENNIS	£24.99
SIM CITY	£29.99
CD REMIX	£29.99
GUINNESS Disc of Records	£34.99

## HARD DRIVES

**2.5 IDE A1200 A600 HD**  
These drives come bundled with Sid Meier's acclaimed CIVILISATION

**40MB HARD DRIVE £ 85.00**  
**85MB HARD DRIVE £160.00**  
**127MB HARD DRIVE £220.00**

**3.5 IDE A1200 A600 A4000**  
**170MB HARD DRIVE £240.00**  
**250MB HARD DRIVE £290.00**  
**330MB HARD DRIVE £390.00**  
**420MB HARD DRIVE £490.00**

**SCSI DRIVES**  
**1000MB DEC SCSI2: £1000.00**  
**850MB DEC SCSI2: £850.00**  
**425MB Fujitsu: £650.00**  
**525MB Fujitsu: £750.00**  
External case and power supply with cables: £94.00 or £30 when purchased with a drive.

## CDTV + ACCESSORIES

**CDTV Multimedia pack £270**  
includes, mouse, caddie, keyboard, disk drive, remote controller and free software, including Fred Fish Disk.

**CDTV Player with software £170**

KEYBOARD.....Turns CDTV into Computer.	£45
MOUSE.....Vital for any serious user.	£30
DISK DRIVE.....Access Amiga 500 software.	£60
IR CONTROL.....You never know.	£30
AMIGA to Scart....Plug CDTV into scart T.V.	£10
CD Scsi card.....Used to connect hard drives.	£90

## GOLDTECH

TEL: 081 520 6224

FAX: 081 521 6209

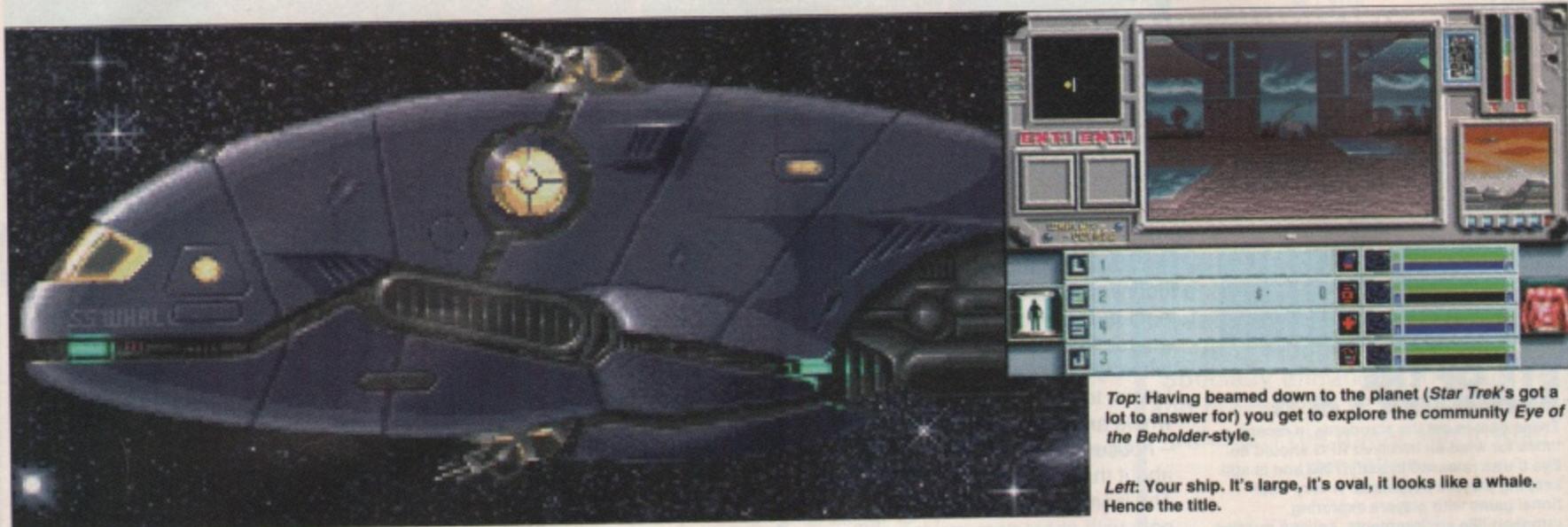
GOLDTECH COMPUTER SYSTEMS  
67 TURNER ROAD, WALTHAMSTOW,  
LONDON E17 3JG

Contact us via Email on: Goldtech@cix.compulink.co.uk  
All prices are correct at time of going to press, E&OE  
All Trademarks Respected



Paul Presley spent his childhood summers in places like Llandudno, Towyn and Rhyl, so he seemed the perfect person to mis-read the title of Flair's latest.

# WHALE'S VOYAGE



Top: Having beamed down to the planet (Star Trek's got a lot to answer for) you get to explore the community Eye of the Beholder-style.

Left: Your ship. It's large, it's oval, it looks like a whale. Hence the title.



**FLY ME TO THE MOON(S)**

Have you ever seen the cockpit of a space shuttle? There are buttons, switches, lights and dials everywhere. On the walls, on the floor, on the ceiling, there's probably some in the toilet compartments too (but that's just an excuse for a cheap laugh so I won't mention it). Oh how I bet those brave pioneers of the final frontier long for the kind of control system seen in the Whale. You just pick your planet and press a single button to go there. No controls, no joysticks, no messing around with altitude adjustments and speed corrections. Just a single, solitary button.

Actually the Planet Selection screens do contain some of the finest graphics in the game, even if they are just life-sustaining, solar orbiting spheroids (planets to you and me, bub). Pick a planet and you also get a handy little description of what life is like there. It's all rather jolly, but with only six planets, sadly short-lived.



Let's see, how do you best describe *Whale's Voyage*? Hmm ... take *Elite*. Now take all the bits that made *Elite* good (the three-dimensional space flights and the nail-biting combat) and throw them out. Next reduce the hundreds of visitable planets to a total of six and add a sub-standard *Eye of the Beholder* routine to simulate planet exploring. Hey presto, *Whale's Voyage*. And boy does it flounder.

Games like this really irritate me and I'll tell you why. You can just picture the design meetings – four or five guys and gals sat around a pub table (or Biergarten since this was

made in Austria) discussing their next project. 'Hey,' says one, 'let's do an *Elite*. You know space travel, trading, combat. It'll be great (or zoo-per, as I believe is a popular phrase in fashionable quarters of Vienna).' Unfortunately no one has the heart to tell these people that you can't 'do' an *Elite* as *Elite* was the quintessential space game and the only way you can cover it is if your name is David Braben since then people won't think you're just ripping it off. The other thing is that if you are going to go ahead and do a cover version anyway, you have to make sure that what you produce is not

only bigger, but better than the original in the first place. *Whale's Voyage* fails on both counts so it's right up a certain creek without a certain instrument before it starts.

## GOING DOWNTOWN

It has a brave stab at being innovative, but sadly its blade of choice is as sharp as wet celery. You don't just control one character at a time but four, treating you to a more typical role-playing game environment when you venture down to a planet's surface. You know the form (or at least you should by now), first-person flick screening around the local town, bumping into wandering locals and exploring the various shops (none of which sell anything except trading goods).

Now this might have been quite good, after all *Elite* never went near the surface did it? Unfortunately in the same way that the space bit of it failed to capture any of *Elite's* good points, the role-playing element fails to deliver. The control system is one of the most unwieldy I've ever encountered. For example, to hit someone you first have to access the relevant character's icon menu, then you choose the Select Person icon, then you select which computer controlled person to hit, then you re-access the character's icon menu and select the attack icon. And just because you selected the opponent with one character, don't think you've done it for everyone. Each time a dif-

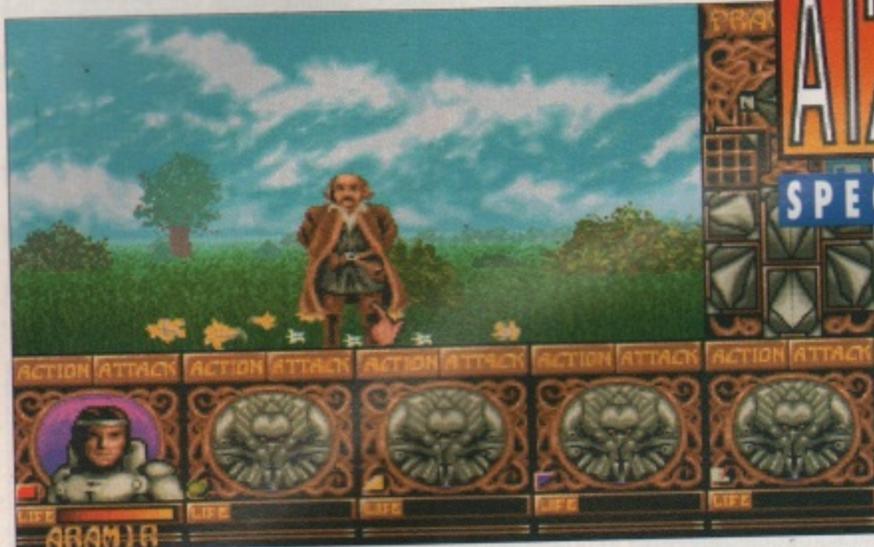


Shops on the planets' surface serve pretty much the same purpose as the one's in orbit. You can buy or sell your wares in order to make a profit, although occasionally specialist emporiums crop up (such as medical facilities).



# ISHAR 1200

DAZE OUT NOW £32.99



The first party member to recruit is this thief. This guy's called Bormina – you know Tolkein has a lot to answer for with his stupidly named characters like Bilbo Baggins and Aragorn. What's wrong with simple names like Fred and Steve?

The archipelago of Arborea has featured in a fair few RPGs in recent years. First there was the *Crystals of Arborea*, then *Ishar – Legend of the Fortress* and, last month, *Ishar 2 – Messengers of Doom*. All the games have been well received by both public and critics alike. So it was with some disappointment that many adventure fans found that *Ishar 1* did not run on their A1200s.

Fortunately that grave oversight has been corrected and A1200 owners can finally experience the delights of one of the best RPGs on the scene. Not only is it now fully compatible it has also been significantly enhanced.



Unfortunately the town's not as peaceful as it first appears. Here's a band of roving orcs out to make pancakes of your adventurers. One of 'em's dead but it cost the life of poor old Bormina (still, with a silly name like that he didn't deserve to live very long).

The player sees the world from the standard first person perspective but, beyond that, the game does not conform to the usual tenets of the genre.

First off there's no character generation to deal with – you start the game already equipped with one fighter who must then travel the lands recruiting other party members. This is one of the more intriguing aspects because you can often find yourself in a position

where you desperately want to recruit someone whom the rest of the party will not have. In this respect a character's personality greatly affects many aspects of the gameplay. You can even find yourself in a position where a wounded character, who is disliked by the rest of the team, is refused medical aid.

The idea of the game is to explore a vast world in an attempt to find clues that will help you defeat the nasty Krogh.

This evildoer has built a huge temple in your lands and is doing his utmost to terrorise and kill the local population. The sheer size of the map is probably the greatest problem that exists with this game in that the landscape is often very sparse with few locations for you to explore.

Still, if you like mapping you're definitely in for a treat. Improvements to the A1200 version include the obvious expansion in colours to 256 which adds significant depth to the backgrounds.

Also, the gameplay has been tweaked to take advantage of the faster processor. This is quite welcome given the older version's tendency to run fairly slowly.

The most welcome improvement in this version of the game comes in the form of a doleful soundtrack – great for atmosphere. All in all it's a substantial improvement serving to enhance your overall enjoyment of the product. **83%**

Jon Sloan

# SIM LIFE AGA

MINDSCAPE OUT NOW £34.99

A1200 SPECIFIC



The speciate window is excellent. Say you make a mistake with one animal you can change it into another, either immediately or over a few generations.

At first view *Sim Life* looks like one of those incredibly complex utilities that takes you ages to learn to use properly before you realise that you don't actually like it. Fortunately that's only half true – it will take ages before you learn what all the buttons are for, but it's great fun experimenting. And that is the core of the game, as the designer Ken Karakotsios says, 'It is a game, a toy and an experimental tool to learn about life, real and artificial.'

It's absolutely necessary in such a deep game for you to be slowly introduced to it via growing levels of complexity. Thankfully, Ken has realised this and provides you with a full on-screen tutorial. Also, as it was ported straight from the Apple Mac the control system is very intuitive indeed. So, despite the fact that *Sim Life's* got more buttons than all the bellies in China you soon learn what all the major ones do. To help you start there's also six pre-set scenarios or experiments ready for you to explore. One of the fun ones starts you off with a colony of herbivores which then suffers from a gradual introduction of carnivores. The aim being to try to find out at what point a balance is reached.

There is no specific goal to be reached. The basic idea is to establish an ecosystem where the various lifeforms reach some kind of equilibrium with each other and their environment. You can achieve this by changing factors at every level of the life scale

from basic genes all the way up to whole species of both plants and animals. Also, instead of taking such immediate control over evolution, you can influence it less directly by altering the envi-



The biology lab window allows you to create or edit lifeforms. Just like God! At this level you control their gene diversity, their main food source, and their intelligence amongst others.

ronment making it hotter, wetter, less lush, etc. This range of options makes *Sim Life* a game you're likely to be playing for months, maybe even years, down the line and still finding something new to do.

On the down side, I was less than impressed by the standard of the graphics with animals being depicted as simple block drawings that move but do not animate. The game speed too is not good, even on the A4000. Those little niggles aside, if the idea of being able to control a whole ecosystem and the evolution of all the life in it appeals to you, *Sim Life* will draw you in and keep you playing for a long time to come. Now, what if I cross an alligator with a poodle...?

Jon Sloan

**85%**



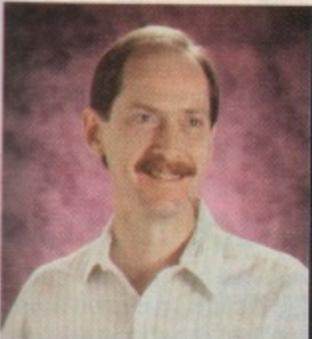
# OPUS *Many Needs, One Solution.*

*Whether you're new to computers, a computer whiz, or somewhere in between, you'll find Directory OPUS an invaluable tool for making your Amiga more efficient and productive.*



*"Directory OPUS lets me feel like I'm in control, even if I don't always know what I'm doing. Instead of being frustrated, now I can do fun things with my Amiga!"*

*- Sonia King, Amiga Hobbyist*



*"With Workbench and CLI, you waste too much time using correct syntax and looking for the right program to view the right file. With OPUS, everything is at my fingertips."*

*- Harold Williams, Power User*



*"With OPUS I can get on with my real business. I don't waste my time figuring out commands or looking all over my hard disk for files."*

*- Greg Ruuska, Corporate User*

Face it. The more you do with your Amiga, the tougher it is to organize hundreds of files, directories and programs. How do you copy a file? How do you view and manage multiple directories? Which viewer works best with which files?

How in the world do you control all these details, have some fun, and get some real work done?

***Directory Opus is the answer!***

Disk Management can turn into a full time job. OPUS keeps your life simple by giving you point and click control over all your housekeeping functions - like copying, moving, deleting, and renaming files. It also gives you enhanced requesters for doing things such as disk formatting, copying, and installing. The intuitive interface gives you the necessary information and tools to easily organize your files and directories.

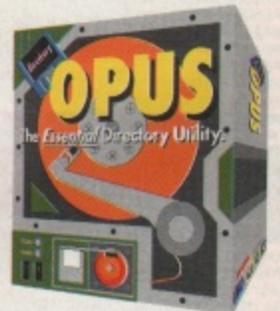
Making Disk Management easy is just the beginning. Directory OPUS knows what your files are - even if you don't. Want to see any image file, regardless of format? Play sound files or even a music file? Run an animation? Just point & click with OPUS. Want to see what's in a Workbench drawer? Just drag and drop it to see a full list of its contents. And there's more. You can even use OPUS as a "home base" for common tasks like printing or searching for files, and for uncommon tasks like file encryption.

Why not have OPUS your way? Simple point and click configuration lets you modify every aspect of OPUS to suit the way you want to work. From interface colors and fonts, to the appearance and operation of every button, to controlling the way files are copied and deleted, the configuration program helps you through every step with on-line help.

Directory OPUS makes it easy to start your applications. Using the point and click configuration utility you can customize your Buttons and Menus and even teach Directory OPUS to recognize new file types. Got a word processor? Teach OPUS to run it and edit a selected file - it's a breeze!

**Directory OPUS:** *The Number 1 best selling Amiga software utility.* Pick up a copy today, or call INOVATronics at 0707 662 861 for the location of the INOVATronics dealer nearest you!

***Announcing:*** *Our new UK office, offering sales & Technical support!*



**INOVATRONICS, LTD.**

Unit 11, Enterprise Centre, Cranborne Road  
Potters Bar, Hertfordshire  
EN6 3DQ, England

Tel: 0707 662 861 FAX: 0707 660 992

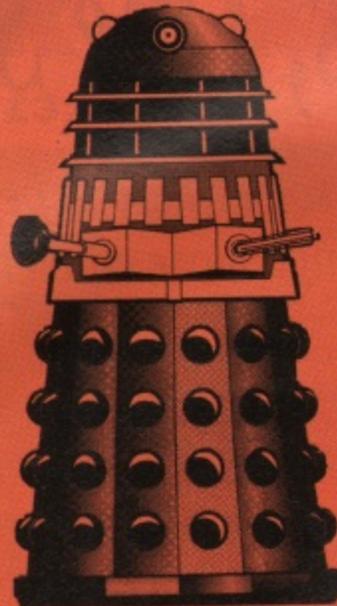


# Ameagre Prices for Amiga Users

## Games

10 GREAT GAMES (NOT1200)	22.95
1869 (1MB)	21.95
1869 (AMIGA 1200) (1MB)	21.95
4TH & INCHES	7.95
A-TRAIN (1MB)	24.95
A-TRAIN CONSTRUCTION SET	12.95
ABANDONED PLACES 2 (1MB NOT1200)	24.95
AFTER BURNER	6.95
AIR SEA SUPREMACY (COMP) (NOT1200)	22.95
AIR SUPPORT	17.95
ALIEN 3 (1MB)	21.95
ALIEN BREED - SPECIAL EDITION '92 (1MB)	8.95
AMIMATION CLASSICS (1MB)	33.75
AMOS PROFESSIONAL (1MB)	37.95
AMOS PROFESSIONAL COMPILER (1MB)	24.95
ANARCHY	7.95
ANCIENT ART OF WAR IN THE SKIES (1MB)	24.95
ANOTHER WORLD	18.95
AQUATIC GAMES	18.95
ARABIAN NIGHTS (1MB)	18.95
ARKANOID II - REVENGE OF DOH	6.95
ARSENAL - THE COMPUTER GAME	18.95
B-17 FLYING FORTRESS (1MB)	24.95
BANE OF THE COSMIC FORGE (1MB)	27.95
BARDS TALE 3	8.95
BARDS TALE CONSTRUCTION KIT (1MB)	21.95
BATMAN - CAPED CRUSADER	6.95
BATMAN - THE MOVIE	6.95
BATTLE CHESS	8.95
BATTLE ISLE	22.95
BATTLE ISLE - SCENARIO DISK VOL 1	15.75
BATTLE OF BRITAIN - Their Finest Hour (1MB)	22.95
BATTLE TOADS	18.95
BC KID	18.95
BIG RUN	15.95
BIRDS OF PREY (1MB)	24.95
BITMAP BROTHERS - VOLUME 1 (NOT600)	18.95
BLADE OF DESTINY (1MB)	29.95
BODY BLOWS (1MB)	19.95
BOSTON BOMB CLUB	7.95
BRAIN BLASTER	6.95
BUBBLE BOBBLE	6.95
BUBBLE DIZZY	6.95
BUGS BUNNY	6.95
CAESAR (1MB NOT1200)	21.95
CAMPAIGN	24.95
CAMPAIGN 2 (1MB)	24.95
CAPCOM MISSION DISKS	12.95
CAPCOM COLLECTION	21.95
CAPTAIN DYNAMO	8.95
CARDIAXX	14.95
CARNAGE	6.95
CARRIER COMMAND (NOT1200)	7.95
CASTLES (1MB)	21.95
CENTURION	8.95
CHAMPIONSHIP MANAGER '93 (1MB)	18.95
CHAOS ENGINE (1MB)	18.95
CHESS CHAMPION 2175	15.75
CHESSMASTER 2100 (1MB)	12.95
CHUCK ROCK 2 - SON OF CHUCK (1MB)	18.95
CISCO HEAT	9.95
CIVILIZATION (1MB)	24.95
COMBAT AIR PATROL (1MB)	21.95
COMBAT CLASSICS (1MB)	21.95
CRAZY CARS 3	18.95
CREATURES (1MB)	18.95
CREEPERS (NOT1200)	21.95
CRYSTAL KINGDOM DIZZY	15.75
CURSE OF ENCHANTIA (1MB)	24.95
CYBERSPACE (1MB)	24.95
D-GENERATION (1MB)	12.95
DALEK ATTACK	13.95
DALEY THOMPSON'S OLYM. CHALLENGE	6.95
DARK QUEEN OF KRYNN (1MB)	24.75
DAS BOOT	12.95
DEATH KNIGHTS OF KRYNN (1MB)	22.95
DELUXE PAINT IV AGA	69.95
DESERT STRIKE	21.95
DIZZY COLLECTION	18.75
DIZZY PANIC	6.95
DIZZY'S EXCELLENT ADVENTURES	18.75
DONK	12.95
DOODLEBUG	18.95
DOUBLE DRAGON II (NOT1200)	7.95
DRAGONS LAIR III (NOT1200)	21.95
DREADNOUGHTS	25.99
DREADNOUGHTS - BISMARCK	12.95
DREADNOUGHTS - IRONCLADS	12.95
DREAM TEAM	18.95
DREAMWEB (1MB)	24.95
DUNE II (1MB)	22.95
Dungeon Master/Chaos Strikes Back (1MB)	21.95
DYNA BLASTER	22.95
EASY AMOS (1MB)	24.95
EMLYN HUGHES INT. SOCCER (NOT1200)	7.95
ESCAPE FROM PLANET OF ROBOT MONSTERS	6.95
ESPANA - THE GAMES '92 (1MB NOT1200)	21.95
EURO FOOTBALL CHAMP	18.95
EUROPEAN CHAMPIONSHIPS 1992	18.95
EXODUS 3010 (1MB)	21.95
EYE OF THE BEHOLDER II (1MB)	25.99
F-16 COMBAT PILOT (NOT1200)	7.95
F-19 STEALTH FIGHTER (1MB NOT600)	13.95
FA PREMIERE LEAGUE FOOTBALL	18.95
FALCON	7.95
FALCON - COUNTERSTRIKE DATA DISK	7.95
FALCON - FIREFIGHT DATA DISK	7.95
FANTASTIC WORLDS (COMP) (NOT1200)	25.99

hundreds more titles in stock!



Dalek Attack 13.95

FANTASY WORLD DIZZY	6.95
FASCINATION	21.95
FIRE FORCE (NOT1200)	18.95
FIRE HAWK	15.75
FIRST DIVISION MANAGER (NOT600)	6.95
FLASHBACK (1MB)	22.95
FLIGHT OF THE INTRUDER (NOT+)	12.95
FUMBO'S QUEST (NOT+)	7.95
FOOTBALL DIRECTOR 2 (1MB)	7.95
FOOTBALL MANAGER 3	18.95
FORMULA 1 GRAND PRIX (1MB)	24.95
GALUNTLET I	6.95
GALUNTLET II	14.99
GHOSTBUSTERS 2 (NOT+)	6.95
GHOULS 'N' GHOSTS (NOT600)	6.95
GNOME ALONE	18.95
GOAL (1MB)	22.95
GOBLINS 2 (1MB)	21.95
GRAHAM GOOCH WLD CLASS CRICKET (1MB)	21.95
GRAHAM TAYLOR'S SOCCER (1MB)	18.95
GUNSHIP 2000	24.95
HARRIER ASSAULT (1MB)	24.95
HEAD OVER HEELS	6.95
HEROQUEST	7.95
HEROQUEST - TWIN PACK	21.95
HEROQUEST 2	18.95
HIRED GUNS	21.95
HISTORY LINE (1914-1918) (1MB)	24.95
HOT HATCHES	18.95

## DataGEM Games Centre

Mon - Fri 10am to 8pm  
Saturday 10am to 4pm  
2 mins from Old St. Tube - take exit 2

Try before you buy at mailorder prices



HUCKLEBERRY HOUND	6.95
HUMANS (NOT1200)	21.95
HUMANS - JURASSIC LEVELS (STAND ALONE)	21.95
IK+	6.95
INDIANA JONES & FATE ATL. (ACT) (1MB)	18.95
INDIANA JONES & FATE ATL. (ADV) (1MB)	27.95
INDIANA JONES & L. CRUSADE (ACT)	6.95
INDIANA JONES & L. CRUSADE (ADV)	12.95
INTERNATIONAL 5 A SIDE	6.95
INTERNATIONAL GOLF	6.95
INTERNATIONAL OPEN GOLF	18.95
INTERNATIONAL RUGBY CHALLENGE (1MB)	18.95
INTERNATIONAL TRUCK RACING	6.95
ITALY 1990	6.95
JAMES POND	6.95
JIM POWER	15.95
JOE & MAC - CAVE MAN NINJA (1MB)	18.95
JOHN MADDEN'S FOOTBALL	18.95
KEYS OF MARAMON	9.95
KGB (1MB)	22.95
KICK OFF II (1 MEG)	18.95
KID PIX (NOT1200)	18.95
KNIGHTS OF THE SKY (1MB)	24.95
LEGEND (1MB)	12.95
LEGEND OF KYRANDIA (1MB NOT1200)	25.99
LEMMINGS (ORIGINAL)	18.95
LEMMINGS 2 (1MB NOT1500)	21.95
LEMMINGS DOUBLE PACK	21.95
LINKS - BAYHILL	14.95
LINKS - FIRESTONE	14.95
LINKS - HYATT DORADO	14.95
LIONHEART (1MB)	20.95
LIVERPOOL FOOTBALL	18.95
LOMBARD RAC RALLY	6.95
LOST DUTCHMAN MINE	6.95
LOTUS ESPRIT TURBO CHALLENGE	7.95

SABRE TEAM (1MB)	18.95
SCRABBLE	20.95
SECRET OF MONKEY ISLAND (1MB NOT600)	18.95
SECRET OF MONKEY ISLAND II (1MB)	27.95
SENSIBLE SOCCER 92/93	18.95
SHOE PEOPLE	7.95
SHOOT 'EM UP CONSTRUCTION KIT	7.95
SHUTTLE (1MB)	22.95
SILENT SERVICE II (1MB)	24.95
SIM ANT	24.95
SIM CITY - ARCHITECTURE 2	7.95
SIM CITY DELUXE	25.99
SIM CITY/POPULOUS	21.95
SIM LIFE (1MB)	21.95
SLEEPWALKER (1MB)	21.95
SLEEPWALKER (AMIGA 1200)	21.95
SLICKS	6.95
SMASH TV	6.95
SNOW BROS	18.95
SOCCER KID	18.95
SOOTY & SWEEP	6.95
SPACE CRUSADE - DATA DISK	15.75
SPACE CRUSADE PLUS MISSION DISK	18.95
SPACE LEGENDS (1MB)	21.95
SPORTS MASTERS (COMP)	21.95
STAR BLADE	7.95
STEG THE SLUG	6.95
STRATEGY MASTERS	24.75
STREET FIGHTER (NOT+)	7.95
STREET FIGHTER 2 (1MB)	20.95
STRIDER	6.95
STRIKE FLEET	10.95
STRIKER (1MB)	18.95
STRIKER MANAGER	7.95
STUNT CAR RACER	6.95
SUPAPLEX	6.95

LOTUS III - THE ULTIMATE CHALLENGE (1MB)	18.95
LOTUS TURBO CHALLENGE II	7.95
MAELSTROM	24.95
MANIAC MANSION	10.95
MAVIS BEACON TEACHES TYPING V.2 (1MB)	21.95
MCDONALD LAND	18.95
MEGA SPORTS	18.95
MEGA-LO-MANIA / FIRST SAMURAI (NOT1200)	22.95
MEGATRAVELLER 2 (1MB)	21.95
MERCENARY 3	14.95
MERCS	7.95
MICROPROSE GOLF (1MB)	24.95
MICROPROSE SOCCER	6.95
MINI OFFICE (1MB)	49.95
MOONSTONE	21.95
MOONWALKER (NOT+)	6.95
MORPH (1MB)	18.95
MORPH (AMIGA 1200)	18.95
NICK FALDOS CHAMPIONSHIP GOLF (1MB)	24.95
NIGEL MANSELL'S WLD CHAMPIONSHIP (1MB)	21.95
NINJA REMIX	7.95
NO GREATER GLORY (1MB)	24.95
NO SECOND PRIZE (1MB NOT600)	18.95
NODDYS PLAYTIME (1MB)	18.75
NORTH & SOUTH	6.95
OMAR SHARIF'S BRIDGE (1MB)	24.95
OPERATION STEALTH	12.95
OPERATION THUNDERBOLT	6.95
OUTLANDER	22.95
PACIFIC ISLANDS	21.95
PANG (NOT600)	6.95
PANZA KICK BOXING	7.95
PEN PAL	39.95
PERFECT GENERAL (1MB)	24.95
PERFECT GENERAL - WW2 DATA DISK (1MB)	15.75
PGA TOUR GOLF - COURSES DISK	12.95
PGA TOUR GOLF PLUS	21.95
PINBALL DREAMS	18.95
PINBALL FANTASIES (1MB)	21.95
PIRACY ON THE HIGH SEAS (1MB)	21.95
PIRATES	10.95
PLAYDAYS	18.75
POPEYE 2	6.95
POPULOUS II - DATA DISK	12.95
POPULOUS II PLUS (1 MEG) (1MB)	24.95
POPULOUS/PROMISED LANDS	10.95
POSTMAN PAT 3	6.95
PREMIER MANAGER	18.95
PRIME MOVER	21.95
PRINCE OF PERSIA	6.95
PROJECT X (1MB)	18.95
PUTTY (1MB)	18.95
QUATTRO POWER MACHINES (COMP)	6.95
RAILROAD TYCOON (1MB)	24.95
RAINBOW COLLECTION (NOT1200)	15.75
RAINBOW ISLANDS	6.95
RAVING MAD	18.95
REACH FOR THE SKIES	22.95
RICK DANGEROUS I	6.95
RICK DANGEROUS II	7.95
ROAD RASH	18.95
ROBOCOD (NOT1200)	18.95
ROME (AD 92) (1MB)	21.95
RUGBY COACH	9.95

SUPER CALDRON	21.95
SUPER FROG (1MB)	19.95
SUPER MONACO G.P.	7.95
SUPER OFF ROAD (NOT1200)	7.95
SUPER TETRIS (1MB NOT1200)	17.95
SUPERCARS (NOT1200)	6.95
SUPERCARS II (NOT1200)	7.95
SUPERFIGHTERS (COMP)	18.95
SUPERHERO (1MB)	21.95
SWITCHBLADE II	7.95
SWIV	7.95
SYNDICATE	24.95
THE GREATEST (COMP) (1MB)	24.75
THOMAS THE TANK ENGINE	6.95
THOMAS THE TANK ENGINE 2	6.95
TINY SKWEEKS	18.95
TOYOTA CELICA	6.95
TREASURE ISLAND DIZZY	4.49
TREASURES OF SAV. FRONTIER (1MB)	24.75
TRIVIAL PURSUIT	6.95
TROLLS (1MB)	18.95
TROLLS (AMIGA 1200)	18.95
TURRICAN	6.95
TURRICAN II	6.95
TWILIGHT 2000	24.95
ULTIMA 6 (1MB NOT600)	15.95
UNIVERSAL MONSTERS	18.95
VIZ	7.95
WALKER	21.95
WAR IN THE GULF (1MB)	21.95
WAXWORKS (1MB)	24.95
WING COMMANDER I (1MB)	24.95
WIZKID (1MB)	18.95
WORLD CLASS LEADERBOARD	7.95
ZAK MCKRACKEN	10.95

## Educational

CAVE MAZE	10.95
FRACTION GOBLINS	10.95
MATHS DRAGONS	10.95
PICTURE FRACTIONS	10.95
REASONING WITH TROLLS	10.95
TIDY THE HOUSE	10.95
ANSWER BACK JUNIOR QUIZ (6-11)	16.99
ANSWER BACK SENIOR QUIZ (12-AD)	16.99
FRENCH MISTRESS	16.99
GERMAN MASTER	16.99
ITALIAN TUTOR	16.99
MATHS ADVENTURE (6-14)	21.95
SPANISH TUTOR	16.99
MEGA MATHS (A LEVEL)	19.95
MICRO ENGLISH (8-GCSE)	19.95
MICRO FRENCH (BEGINNERS-GCSE)	19.95
MICRO GERMAN (Beginners-GCSE-Business)	19.95
MICRO MATHS (11-GCSE)	19.95
MICRO SCIENCE (8-GCSE)	19.95
PRIMARY MATHS COURSE (3-12)	19.95
READING WRITING COURSE (3-8)	15.75
ALVINS PUZZLES	15.75
PAINT POT 2	15.75
SHOPPING BASKET	15.75
WHICH? WHERE? WHAT?	15.75
BETTER MATHS (12-16)	18.95
BETTER SPELLING (8-ADULT)	18.95
JUNIOR TYPIST (5-10)	13.95
MAGIC MATHS (4-8)	18.95
MATHS MANIA (8-12)	18.95
THE THREE BEARS (5-10)	18.95
ADI ENGLISH (11-12)	18.95
ADI ENGLISH (12-13)	18.95
ADI ENGLISH (13-14)	18.95
ADI ENGLISH (14-15)	18.95
ADI FRENCH (11-12)	18.95
ADI FRENCH (12-13)	18.95
ADI FRENCH (13-14)	18.95
ADI FRENCH (14-15)	18.95
ADI JUNIOR COUNTING (4-5)	15.75
ADI JUNIOR COUNTING (6-7)	15.75
ADI JUNIOR READING (4-5) or (6-7)	15.75
ADI MATHS (11-12)	18.95
ADI MATHS (12-13)	18.95
ADI MATHS (13-14)	18.95
ADI MATHS (14-15)	18.95
FUN SCHOOL 1 (6-8)	6.95
FUN SCHOOL 2 (OVER 8)	6.95
FUN SCHOOL 2 (UNDER 6)	6.95
FUN SCHOOL 3 (5-7)	18.75
FUN SCHOOL 3 (OVER 7)	18.75
FUN SCHOOL 3 (UNDER 5)	18.75
FUN SCHOOL 4 (5-7)	18.75
FUN SCHOOL 4 (7-11)	18.75
FUN SCHOOL 4 (UNDER 5'S)	18.75
MERLIN'S MATHS (7-11)	18.95
PAINT AND CREATE (OVER 5'S)	18.95
SPELLING FAIR (7-13)	18.95

## Hardware

A500 Expansion upgrade with clock	0.5Mb	27.95
A500 Expansion upgrade without clock	0.5Mb	24.95
A500plus RAM upgrade	1Mb	56.95
A600 Expansion upgrade with clock	1Mb	51.95
Parallel port extension cable		6.80
Parallel printer cable (2m)		8.80
Roboshift (Auto mouse / joystick switch)		14.75
Z-Fi Stereo Speakers		37.95
Zydec Scanner		117.95

## 3.5" Disks



Qty	DSDD	DSHD
10	5.30	7.80
20	10.35	15.35
25	12.65	18.25
30	14.75	21.80
35	16.90	25.20
40	18.95	28.60
45	21.10	32.10
50	22.95	34.40
80	36.35	52.30
100	41.70	61.80
120	48.40	72.40
150	60.95	90.25
200	78.75	115.75
250	97.30	143.30
300	116.30	170.75
400	154.50	221.70
500	184.65	269.65
600	223.50	320.60
1000	364.30	524.40
2000	728.50	1018.75
3000	1092.75	1498.15
4000	1457.00	1987.50
5000	1726.25	2396.85
10000	3325.20	4713.70

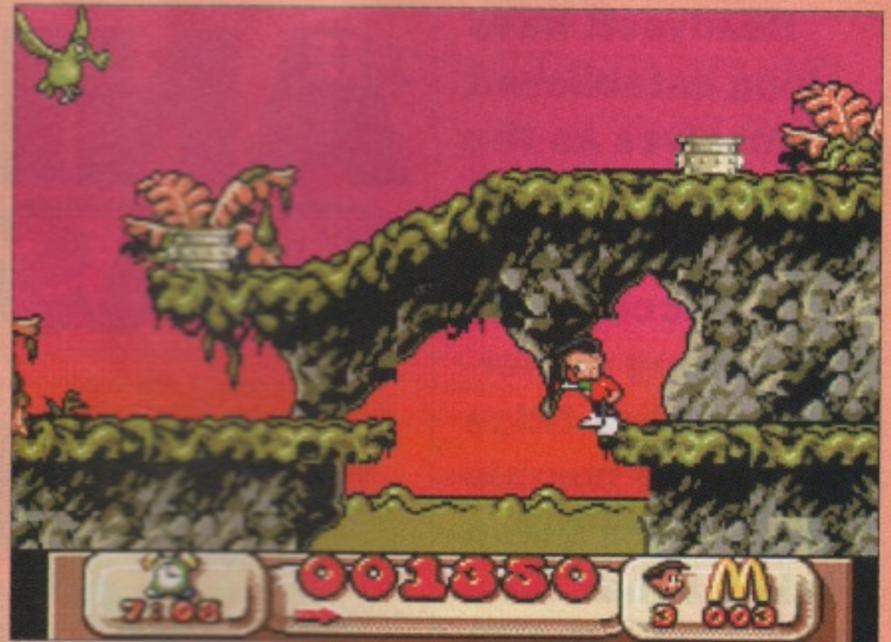
All our disks are fully guaranteed and include labels.

## Miscellaneous

4-Player adaptor	6.95
Head Cleaner (3.5")	3.75
Mouse	14.75
Mouse House	2.95
Mouse Mat	8.49
SCART cable	42.95
Workstation for 500 & 500+	37.95

# GLOBAL GLADIATORS

As his desk is an avalanche of empty coke cans, books and dirty laundry, we thought John Mather was the best candidate to review Virgin's new dirt-busting environment conscious blockbuster.



## LITTER LOUTS

As well as destroying the littering louts that infest each level, there are also a number of McDonald's Arches to pick up. Once you've collected 40, Ronald McDonald appears to wave you through to the next stage of the game. Pick up another 30, though, and you gain entry to a special bonus

Mick, or is it Mack, contemplates throwing his pixelated life away while a bog-bird swoops in.

game, so you can play either Mick or Mack but not both together. More importantly, the whole shooting match is too easy. It's possible to romp through the first two worlds in a couple of hours, and I reckon that most CU AMIGA readers could complete the entire game within a day if they put their minds to it. It's rather like buying a Porsche and finding that its equipped with a Mini's engine.

Global's graphics are certainly stunning, but the gameplay isn't in the same league. There's also a problem when Mick or Mack's sprite is flipped over – the on-screen view changes to show the area directly ahead of the sprite, so things can become confusing if you have to quickly change directions a number of times.

That's not to say *Global Gladiators* is a bad game. If you're new to platform games, you'll get a kick out of it, but the more experienced players amongst you should look elsewhere. **CU**



form-packed scenery is made up of grassy hills and outcropping cliffs with deadly gunge-filled pits lying in wait if you lose your footing. The Mystical Forest levels throw up their own set of nasties in the form of wood-chucking beavers, man-eating plants and murderous axes that literally fly off the handle at the slightest provocation. The most testing obstacle are the bees' nests – once shot to pieces, they unleash a swarm of bees which follow you around.

level. This involves collecting various bottles, cans and newspapers as they fall to the ground and depositing them in the correct recycling bins for bonus points galore.

Mick and Mack possess an amazing repertoire of facial contortions and, if left to their own devices too long, they'll blow a bubble with some chewing gum, spin their Gooshooter around in their hand, or a zillion other set pieces.

Even better, though, is the mass of sampled speech and sound effects that have been included. Collect an energy-giving heart and you get an 'Awesome, dude' greeting blaring out of the speakers, with similar phrases littering other parts of the gameplay.

## STAND AND DELIVER

Unfortunately, the game fails to deliver in a number of departments. For starters, it's only a one-player

Touch the spikes or fall into the gunge pits and you automatically lose a life.

Further on, Toxi-Town features a series of interconnected steel girders, moving conveyor belts, lifts and other obstacles. On the prowl are pneumatic drills, mutant trash cans that throw out a deadly diet of broken bottles and other such rubbish, and toxic clouds that split into smaller particles once hit. Finally, Arctic World is set atop a series of snow-capped mountains and glaciers, and features some cute snowball-chucking Yetis as well as polar bears and snowstorms.



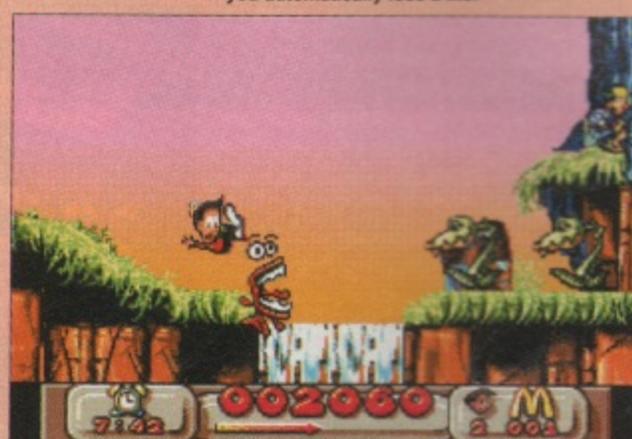
Virgin's first attempt at exploiting the McDonald's license – the thoroughly miserable *McDonaldsland* – was such a stinker we didn't even bother reviewing it. Happily, their second stab at the license is a much more playable affair.

*Global Gladiators* once again features the exploits of Mick and Mack. This time, the two pals are tucking into a meal at a McDonald's restaurant, reading the latest *Global Gladiators* comic, when they're suddenly transformed into the comic book heroes by Ronald McDonald and transported to McDonald's Land which has been taken over by some evil slime-monsters who are spewing out a deadly tidal wave of gunge.

To save the day, Mick or Mack must run or jump about the game's four worlds, made up of three levels apiece, destroying the alien invaders and thus preventing them from turning the world into one big toxic waste dump. Each character comes equipped with a Gooshooter, a marvellous device which churns out an endless supply of a gunge-destroying substance making short work of any alien nasties that get in the way.

Each world is built around a particular theme. Slime World is full of globular-shaped nasties which wobble and wobble all over the place, spewing out a torrent of green slime at anyone who comes near. The plat-

Snowball fights have never been so deadly as those you'll face in Arctic World.



**VIRGIN £25.99**

A500	A500+	A600	A1200
A1500	A2000	A3000	A4000

VIRGIN GAMES, 338A LADBROKE GROVE, LONDON W10 5AH.  
TEL: 081 960 2255

RELEASE DATE: OUT NOW  
GENRE: RUN 'N' JUMP  
TEAM: IN HOUSE  
CONTROLS: JOYSTICK  
NUMBER OF DISKS: 2  
NUMBER OF PLAYERS: 1  
HARD DISK INSTALLABLE: NO  
MEMORY: 1MB

GRAPHICS	♦♦♦♦♦♦♦♦♦♦95%
SOUND	♦♦♦♦♦♦♦♦♦♦90%
LASTABILITY	♦♦♦♦♦♦♦♦♦♦50%
PLAYABILITY	♦♦♦♦♦♦♦♦♦♦86%

‘Certainly looks the business, but the gameplay's too easy.’

**OVERALL 75%**

Readysoft have long established themselves as the premier Amiga animators, successfully converting numerous laserdisc titles to the humble A500. Tony Dillon takes a look at a new compilation that collects three classic games.

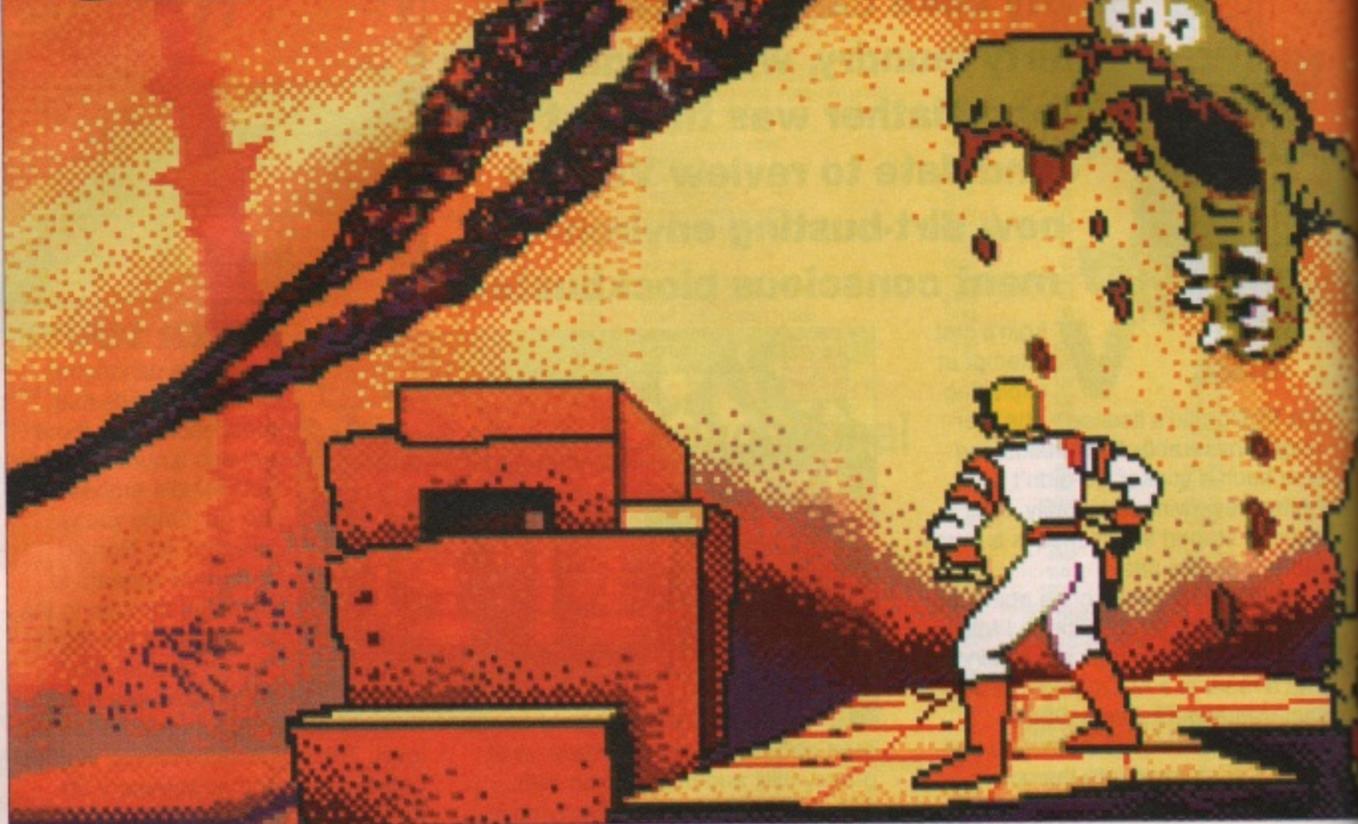
Right: Space Ace takes out the huge green scaly thing! William Gibson never mentioned these!

When *Dragon's Lair* appeared in the arcades, everyone oohed and aahed over the cartoon antics of Dirk the Daring. Fifty pence pieces were dutifully shoved in the stunning looking cabinet without a break, before people finally realised that it just wasn't a very good game. Sure, the graphics being played straight from an oversized Compact Disc were staggering, but the game was almost totally devoid of playability. The problem was that it played like a speeded up adventure game – rather than control the actions of the on-screen hero, you chose the reactions to what was happening. If you thought Dirk should leap left from his current position to avoid the swinging axe, then you pressed left on the joystick – not at the time he should jump, but in any of the five seconds leading up to it. In a sense, you could 'program' the moves for an animation sequence, and then step back and watch it unfold.

Dirk the Daring, ready for anything. What a hunk!



# THE ANIMATION CLASSICS PACK



## DRAGON'S LAIR 2 - TIMEWARP

The original *Dragon's Lair*, when released on the Amiga, wowed everyone in much the same way as the arcade game. Strangely enough, many people didn't mind shelling out the £45 for the game, nor the inherent lack of playability. It looks like people were happy just to have the stunning animation and graphics, which goes some way to explaining why *Dragon's Lair 2* is no better than the original.

It isn't so much a sequel, more a continuation. *Dragon's Lair*, the arcade game, was huge – so large in fact that the Amiga conversion only held one half of it, even though it came on six disks. This is the second half of that game, and it can only be described as more of the same. It contains the same unconventional graphics and controls, which is a good or a bad thing depending on your point of view.

If you wonder what I mean by 'unconventional graphics', then I'll tell you. Most games have a single graphic for the main character, something instantly recognisable regardless of surroundings. This game works more along the lines of a cartoon, with the camera view and zoom changing for each six-second scene, of

Top Right: What a way to die! Dirk gets pulled apart on the drawbridge. Right: Dirk's mother-in-law comes at him with a rolling pin. Could she be the dragon of the title?

which there are 46. Starting in the kitchen of your beloved mother-in-law, you have to flee and rescue the gorgeous, pouting Daphne who has been kidnapped again.

The sound and graphics are amazing. All sounds have been digitised from the coin-op, and all graphics mimic the arcade ones perfectly. Oddly enough, the whole thing runs on a half Meg machine, though lord knows how!

Sadly, the controls are the same as before. There is no room for error, and as you need to make between one and three joystick moves per scene, one wrong move sees you losing one of your three lives. A word of warning: this game features no skill whatsoever. The entire thing can be played through with trial and error, trying each joystick direction as you come across another trouble spot, until you get the right one. Remember the moves you make, and you can waltz through the game!





# HAVE YOU GOT WHAT IT TAKES?

**S**o, you think you're a good gamesplayer, eh? Well, we're going to put it to the test! We've teamed up with Virgin, and nationwide games store, GAME, and come up with the ultimate games challenge. Over the next couple of months, each GAME store will be running a series of challenge matches using a specially prepared demo version of Dino Dini's Superstar-rated kickabout, *Goal!*. The aim of the competition is to rack up the highest score and reach the regional finals, before taking part in a Grand Final and walking off with a pair of tickets to see England at Wembley, plus stacks of Virgin goodies.

## WHAT'S ON OFFER

First prize will be two tickets to watch the England vs. Poland match at Wembley on 8th September. We'll pay your travel expenses to the world famous ground, ply you with drinks before and after the match, lay on a four course meal, and plonk you in a plush executive box from which to watch the match. We'll even lend you a telly just in case you get bored with England's miserable performance and want to watch Coronation Street instead. There will also be an extra bonus of a couple of tickets to a football fixture of your choice (within the UK and subject to ticket availability).

Plus, the GAME staff will be giving away gift vouchers and a limited number of Adidas football shirts on the day of each competition.

## HOW TO TAKE PART

To enter this completely excellent competition, simply check out the list elsewhere on this page to find out where your nearest GAME store is located. Then clip out the coupon at the bottom of the page, turn up on one of the specified dates, hand your entry form to the special *Goal!* representative and get set for some serious joystick waggling.

## WHEN TO PLAY

If you want to take part, we've fixed up a number of dates for the competition. These begin on Thursday 22nd July, and continue on Thursday 29th July, Thursday August 12th, Thursday August 19th and Saturday 21st August for the regional heat winners. The Grand Final takes place on Saturday 4th September at GAME's prestigious Manchester-based headquarters, when winners from each regional heat will compete for the title of *Goal!* Supremo.

### RULES

1. Employees of GAME, Virgin and CU AMIGA are not allowed to take part.
2. The Judges' decision is final and no correspondence will be entered into.
3. There will be no cash alternative.



## WHERE TO PLAY

Game Stores are everywhere, and cover the length and breadth of the country. Check out the list printed below, take along this copy of CU AMIGA to your nearest one, and you'll be able to enter the completely fabulous *Goal!* compo.

**GAME LTD - MANCHESTER**  
Unit 59, Arndale Shopping Centre, Manchester, M4 3AA Tel: 061 839 5101

**GAME LTD - SOUTHAMPTON**  
Unit 12, Yorkgate Level, Bargate Shopping Centre, Southampton, SO1 1HF Tel: 0703 2377771

**GAME LTD - COVENTRY**  
Unit 22, The West Orchards Shopping Centre, Smithford Way, Coventry, CV1 1QX Tel: 0203 256148

**GAME LTD - ROMFORD**  
Unit 15, Liberty 2 Shopping Centre, Romford, Essex, RM1 3EE Tel: 0708 734803

**GAME LTD - LEEDS**  
Unit 28, Victoria Walk, Schofield Shopping Centre, Leeds, LS1 6JE Tel: 0532 465320

**GAME LTD - THURROCK**  
Unit 106, Thurrock Lakeside Shopping Centre, West Thurrock, Essex Tel: 0708 890008

**GAME LTD - HEMEL HEMPSTEAD**  
Unit 12, The Marlowes Centre, Hemel Hempstead, HP1 1DX Tel: 0442 233882

**GAME LTD - WATFORD**  
45 The Harlequin Centre, Watford, WD1 2TA Tel: 0923 213494

**GAME LTD - BROMLEY**  
Unit 6, The Glades Shopping Centre, Bromley,

BR1 1DD. Tel: 081 466 0199

**GAME LTD - NEWCASTLE**  
3 Chevy Chase, Eldon Square, Newcastle-Upon-Tyne, NE1 7UQ Tel: 091 230 0239

**GAME LTD - WOKING**  
Unit 10, The Peacocks Shopping Centre, Woking, GU21 1GB Tel: 0483 768376

**GAME LTD - TUNBRIDGE WELLS**  
113 Royal Victoria Place Shopping Centre, Tunbridge Wells, Kent, TN1 2SR Tel: 0892 545326

**GAME LTD - ABERDEEN**  
Unit 1, 111/115 Union Street, Aberdeen, AB1 2BH Tel: 0224 211102

**GAME LTD - MEADOWHALL**  
Unit 52, High Street, Meadowhall Centre, Sheffield, S9 1EN Tel: 0742 569299

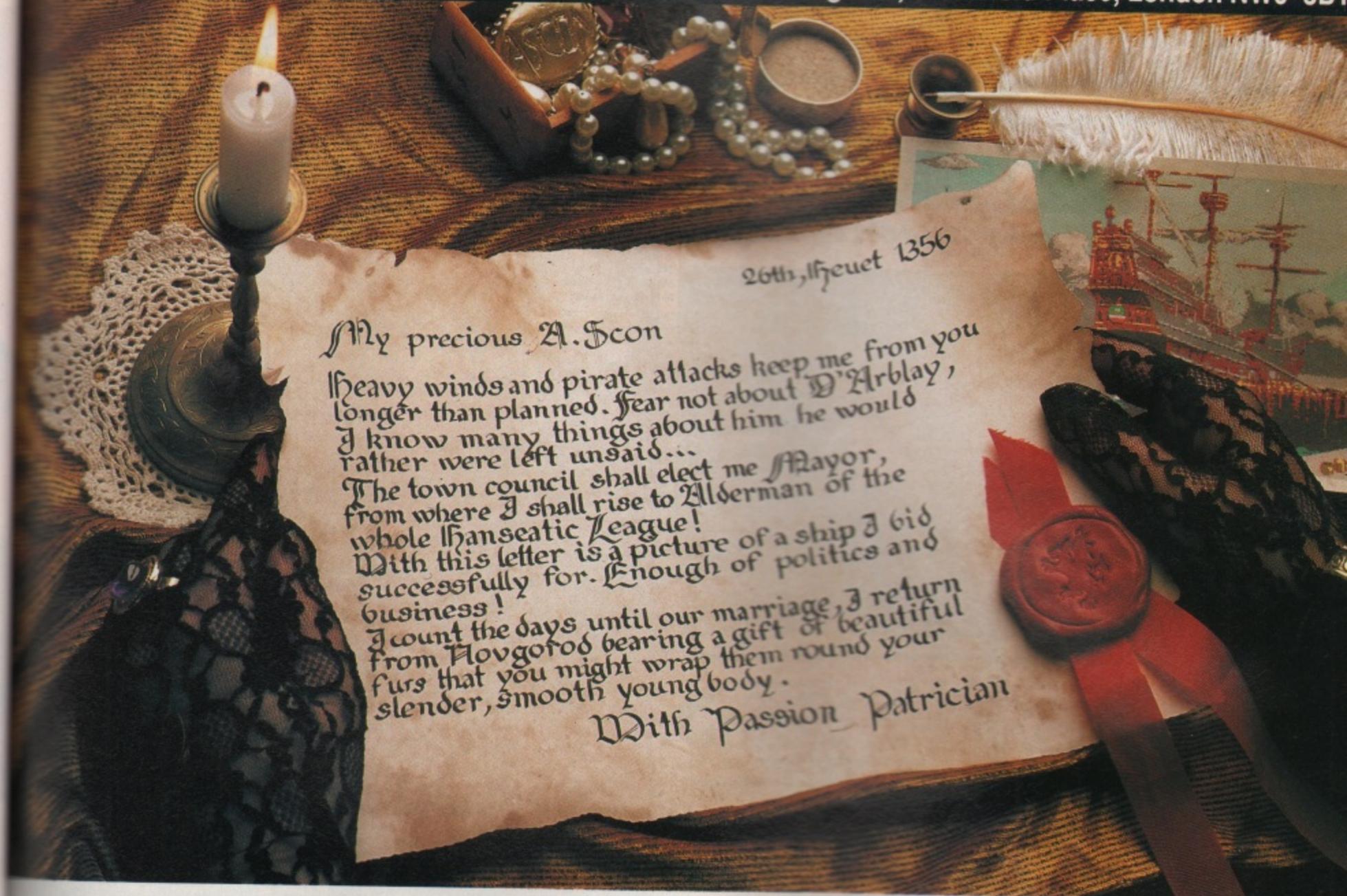
**Look, I could run rings round Dino Dini if I wanted to. Let me take part in this kickabout cup and I'll show you just how good I am at Goal!**

NAME: .....

ADDRESS: .....

This is an official CU AMIGA PRIORITY ENTRY FORM for the Virgin/GAME *Goal!* Challenge and provides for one free entry. No photocopies will be accepted.

a playable demo (state computer) send £ 2.99 to: Daze Marketing Ltd., 2 Canfield Place, London NW6 3BT



26th, thevet 1356

My precious A. Scon

Heavy winds and pirate attacks keep me from you longer than planned. Fear not about D'Arblay, I know many things about him he would rather were left unsaid...

The town council shall elect me Mayor, from where I shall rise to Alderman of the whole Hanseatic League!

With this letter is a picture of a ship I bid successfully for. Enough of politics and business!

I count the days until our marriage, I return from Novgorod bearing a gift of beautiful furs that you might wrap them round your slender, smooth young body.

With Passion Patrician

# SOCCER KID

DOWN AT THE LOCAL COMPUTER GAME SHOP.....





# DISCOVERY P.D.

## TEL: 0274 880066

(No.) = HOW MANY DISKS TO ORDER, EG (2) = 2 DISK PACK

WHY NOT USE OUR TELEPHONE HOTLINE FOR SAME DAY DESPATCH. CREDIT CARDS WELCOME

EST  
SEPT  
91



### SPECIAL OFFERS

- FOR EVERY 10 P.D. DISKS YOU BUY, WE WILL GIVE YOU A 10 CAP BOX WORTH £1.99 ABSOLUTELY FREE!
- FOR EVERY 25 P.D. DISKS YOU BUY, YOU CAN CHOOSE ANOTHER 5 FREE

#### DEMOS

- D1...Mental Hangover
- D2...Interceptor Demo
- D4...Wild Copper
- D10...17Bit Music Demos
- D11...World Demos 21
- D13...Total Remix Demo
- D14/15...Predators(2)
- D20/21...Red Sector(2)
- D24/25...New Tek Reel(2)
- D26...Total Remix 2 Demo
- D27...T.V. Theme
- D30...Epic Demo
- D34...P.D. Collection
- D36...Virtual Worlds
- D37...Vectra Sinking Demo
- D38...TFP Demo Voyage
- D40...Safy Demo
- D59...Video Effects 3D
- D64...Cult Vector Dance 2
- D68...Phenomena Demo
- D70...Amos 3D Demo
- D74...A Trip To Mars
- D76...A2000 GenlockDemo
- D81/82...Budbrain 1 (2)
- D83...Budbrain 2
- D85...Cronics Neverwhere
- D87...pirhana demo
- D101...Alcatraz M/Demo 3
- D102...A Chaplin Demo
- D103...Total Destruction
- D105...Mr B Demo Comp 4
- D106...Walter S.T. Demos
- D111...Defcon 1
- D117...Aurora M/Demo
- D118...Cult M/Demo 2
- D125...Precise Demo
- D133...Fasination
- D136...Goldfire Megademo
- D137/138...So What (2)
- D139...Devils "No Reality"
- D144...The Silents "Ice"
- D145...Crystal Symphonies
- D148...Ray Of Hope 2
- D149...No Brain No Pain
- D158/159...Cyborg Demo(2)
- D195...Coastal Comp
- D197...MC Disk 1 Coma
- D199...End Of Century 1999
- D206...Dreamers 3
- D208...Avengers M/Demo
- D216/217...Bass o Matic (2)
- D218...Disorder Demo
- D219...Tuff Enuff
- D225...Cool Fridge Demo
- D226...Hardcrack M/Demo
- D233...Hypnotic Hammer
- D235...Six Of One Demo
- D238...Planetside
- D239...Lemmings Revenge
- D240...Total Respray
- D243...Budbrain 3
- D244...Phenomena Innerspace
- D245...Total Retrial
- D247...Pulling The Trigger
- D253...CES Demos
- D256...Total Recount
- D257...Total Rebate
- D262...Spasmolytic
- D264...D-Mob M/Demo
- D267...Sun Connection 2
- D270...Kefrons The Wall
- D271...Timex Hydra
- D272...Electric Demos 1
- D274...Defpackers Demo
- D276...Cave La Weird
- D279...Iraqi Demo
- D280/281...Delerious (2)
- D290...Popeye Demo
- D292...Excalibur Demo
- D298...Silents+Anarchy
- D301...Subway Demo
- D302...Tarot Demo
- D303...Despair Demo
- D307...L.S.D. Demo
- D312...Devils Colours
- D314...Trakmo
- D315...The Groove Ramjam
- D322/323...Star Wars (2)
- D325/326...Real Empathy(2)
- D328/329...Red Dwarf (2)
- D330...Darkness M/Demo
- D332...Melted Experience
- D333-337...Odyssey (5)
- D338...Beastie Boys Demo
- D340...Watchman Demo
- D341...Anarchy Smoker Co
- D342...Ed 209 The Revenge
- D343/344...Hardwired (2)
- D346...Wildfire M/Demo
- D348/349...Skizzo Demo(2)
- D350-352...Treacte Team(3)
- D358...Mr Men Stories
- D359...Seeing Is Believing
- D360...State Of The Art
- D361...Mayday Resistance
- D362/363...Jesus On E's (2)
- D364...Fish Tank
- D365...Optimum Pressure
- D366...Mind Riot
- D367...InThe Can Demo
- D368...Dynamic Illusions
- D369...Piece Of Mind
- D370...3D Demo 2
- D371...Lethal Exit

#### UTILITIES

- U1...Games Music Creator
- U21...The Comics Disk
- U32...Modem Utils
- U34...Red Devils Utis 1
- U36...Soundtracker Special
- U38...Paint,Music,Media
- U39...Card Designer
- U40...Spectrum Emulator
- U41...Red Devils Utis 4
- U43...Future Composer
- U44...Kefrons Makeboot
- U45...P.E Giant Utis 168
- U47...Label Designer
- U49...Ultimate Icon Disk
- U50...Power Comp Utis
- U51...Jazz Bench
- U55...Visicalc
- U57...Quickbench
- U59...Font Designer
- U60...D-Point Fonts 1
- U61...D-Point Fonts 2
- U62...Med 3.20
- U63...Direct Anim Creator
- U64...Crossword Designer
- U66...CLI Help + Others
- U67...S/Tracker Mega
- U68...Ultimate Boots 1
- U69...Ultimate Boots 2
- U73...Powerlogo
- U74...M-Cad
- U75...Journal Home Acc's
- U76...Home Utilities
- U77...Electrocad
- U78...Ami Base
- U81...Boorbench V2.0
- U82...Slideshow Maker
- U83...Catalog Workshop 1
- U84...Catalog Workshop 2
- U87...Hard Disk Utis
- U89-94...Amateur Radio (6)
- U95...C-Light + Others
- U96...GFX Utis 1
- U100...Ham Lab
- U101...Sid V2.0
- U108...A-Gene
- U113...Midi Utilities
- U118/119...Video Utis (2)
- U132...GFX Utis 2
- U133/134...North C (2)
- U136...CrossDoss (demo)
- U138...Squid Squad Utis
- U139...Terminalities V1.0
- U140...Squash 1 (2.04 only)
- U141...Squash 2 (2.04 only)
- U142...Text Plus 3
- U144...Dennis Samples 1
- U145...Digital Intro Design
- U146...Viz Clip Art
- U147...Spectrum Emulator
- U151...Sliptream V/Killers
- U152...Red Devils Utis 6
- U154...Amigafox W/P
- U155...P.D Utis Docs Disk
- U163...Quickbench + (2.04)
- U164...Rim Database
- U166...Dennis's HBack Disk
- U167...Demolisher Utis
- U168...Home Business 3
- U172...Squelch (1.3 only)
- U176...GFX Utis 3
- U177...Star Charts
- U179-180...Dice (2)
- U181...Celtic Demo Maker
- U186-206...Track Ins 10-30
- U207...Icon Collection 1
- U208...Dave Jones Fonts 1
- U210...Ultrapaint 3
- U211...Chemesthetics
- U212...Animated Pointers
- U213...Desk Top Publisher
- U214...Deskbench Icons
- U215...Mussy Sid 2
- U216...Master V/Killer 2.2
- U218...Data Base Wizard
- U223...Ten Pin Data Base
- U224...Q-Base Data Base
- U226...Games Solutions 1
- U231...D-Point Fonts 3
- U232...Games Cheats 2
- U234...Flexi Base
- U235...Ami Cash V1
- U238...Iconmania
- U240...Icon Editor
- U252...Opicoms 2.0
- U254...New Superkillers 2
- U255...Protracker v2.0
- U256...Atari ST Emulator
- U258...D-Copy 3
- U262...PC Emulator
- U263...Med 3.21
- U273...Vidi Fonts 1
- U274...Illinois Labels
- U275...600 Business letters
- U279...Invoice Printer
- U280...Woman V2.02D
- U283...Headline Fonts
- U289...Amos Updater
- U290...Kickstart 2.04
- U292...Black Tiger Utis 1
- U293...Black Tiger Utis 2
- U294...Text Engine V4.0
- U295...Game Tamer
- U296...Ultimate Disk Crea
- U297...10 PD Copiers
- U298...Protracker V3.0

#### GAMES

- G1...Return To Earth
- G2...Games comp 5
- G3...Dizzy Lizzy
- G4...Scum Haers
- G5...Parachute Joust
- G6...Frantic Freddie
- G8...Twintris
- G9...Pseudo Cop
- G10...Drip
- G11...Bug Bash
- G12...Asteroids
- G13...Llamatron
- G14...Escape From Jovi
- G15...Moria Adventure
- G16...Ground Attack
- G17...Megaball
- G18...Insiders Club
- G19...Various Adventures
- G20...Battleforce
- G22...Dragon Cave
- G24...Rings Of Zon
- G25...Mayhem
- G26...Mechflight
- G27...The Tennis Game
- G28...Flaschbier
- G29...Buck Rogers
- G30...Greylayer
- G31...7-Tiles
- G32...Mega Comp 1
- G33-34...Star Trek 1 (2)
- G35-37...Star Trek 2 (3)
- G38-39...Mechforce (2)
- G40...Klondyke
- G42...Car
- G43...Games Comp 2
- G44...S.E.U.C.K. Games
- G45...Sace Games Comp
- G46...Games Comp 3
- G48...Rays Game Disk
- G49...Games Comp 4
- G50...Games Comp 6
- G51-52...Trucking (2)
- G53...Jetpac
- G55...Quack And Silva
- G56...Miniblast
- G57...Lamer Game
- G58...Games comp 7
- G59...Games comp 8
- G60...Pom Pom Gunner
- G61...Caverunner
- G62...Crystal Caverns
- G63...Intact
- G64...Eternal Rome
- G65...Lemmingsoids
- G66...Downhill Challenge
- G67...Lame ST Ports
- G68...Paranoid
- G69...Puggles
- G70...Chainsaw Death
- G71...Pirate Pete's Treasure
- G72...Serene 2
- G73...Castles
- G74...Dynamite Dick
- G75...Card Games 1
- G76...Wizzy's Quest
- G77...Growth
- G78...Skate
- G79...Alic Atac
- G80...Napoleonic Sim
- G81...Project 1
- G82...Lazer Zone
- G83...Lemmings Pack
- G84...Star Trek S.E.U.P
- G85...Latrix
- G87...Matched Pairs
- G88...Raphaels Revenge
- G89...Snake Pit
- G90...Zeus
- G91...Merv The Merciless
- G92...Blizzard
- G93...The Maze Game
- G94...Subculture
- G95...Hollywood Trivia
- G97...Shootout
- G99...Holy Grail Adventure
- G100...Amos Coindrop
- G101...Classic Comp 1
- G102...Card Games 2
- G103...Super Skoda Chall
- G104...Grand Prix Sim
- G105...Games Comp 9
- G106...Computer Conflict 2
- G107...Mission X Raid 2
- G108...NU Game
- G109...Antep + Slot Cars
- G110...Tricky + The Turn
- G111...Marble Slide
- G112...Games Comp 10
- G113...Black Jack Lab
- G114...Dungeon Of Madroj
- G115...Amiga Columns
- G116...Robocop In Iraq
- G117...Mutant Camels
- G118...Games Comp 11
- G119...Number Fumbler
- G120-122...Warlock (3)
- G123...Card Sharp 1
- G124...Bart Simpson
- G125...CC Games Comp
- G126...Air Ace 2
- G127...Breakout Con Kit
- G128...Pipeline
- G129...Dung Of Doridian
- G132...Peters Quest
- G133...Star Trek 3
- G134...Piperider
- G139...Door To Door
- G143...Solid Quad
- G144...Omega Race

- G145...Mission X Raid 3
- G146...Trek 73
- G147...Wack In Wonderland
- G148...Squats Revenge
- G149...Sky Fight
- G150...Wet Beaver
- G151...Airmania
- G152...Wizard World
- G154...Totally Frantic Quiz
- G155...Chess V2.0
- G156...Smash Telly
- G159...Billy The Dragon
- G160...I-Ching
- G161...E-Type
- G162...TomCat
- G163...Sea Lance
- G164...Dizzy Diamonds
- G165...No Mans Land
- G166...Word Square Solver
- G167...Cross Fire
- G168...Wastelands
- G170...Space Blitz
- G171...Crazy Sue
- G172...Make A Break
- G173...Squamble
- G174...F-1 Challenge
- G175...Othello
- G178...Evil Dead Game
- G179...Trainset
- G180-181...P Comps 1+2
- G182...Diplomacy
- G183...Tractor Beam
- G184...Motor Duel
- G185...Game Boy Tetris 2
- G186...Water Works
- G187...Act Of War
- G188...Mutants Games
- G189-193...Timelords 1-5
- G194...Nirvana
- G195-196...Neighbours (2)
- G197...Amoeba Invaders
- G198...Game Boy Tetris 1
- G199...Tretan
- G200...Battlecars 2
- G201...Dr Mario
- G204...Ashido
- G205...Cheats Disk 2
- G206...Cheats Disk 3
- G207...Next Generation
- G208...Airport
- G209...F.R.A.C.
- G210...The Golden Fleece
- G211...Legend of Lothian
- G212-214...Timelords 6-8
- G215...Amos Games 1

- S76...Belinda Carlisle
- S77...Cher Slides
- S79...Freddie's Dead
- S80...Wendy James Slides
- S81...The Invisible World
- S82-83...Terminator 2 (2)
- S84...Fantasy Pics
- S85...Gulf War Slides
- S86...Magical Pics
- S88...Gulf War Tribute
- S89-90...S/Thing Fishy (2)
- S91...Eldorado Slides

#### ANIMS

- A1...Probe Sequence
- A2...Ghost Pool
- A3...Jogger + Magician 1
- A4...Gymnast Demo
- A5...Fractal Flight
- A6...Basketball Demo
- A8...Walker Demo
- A9...Magician 2
- A10...Pugs In Space
- A11...Luxor Teenager
- A13...Juggler Demo
- A16...Cool Cougar
- A17...Mono Cycle Anim
- A18...Robocop Anim
- A20...Mayhem On Wheels
- A21...Jugette 2
- A22...Shuttlecock Anim
- A23...T-Pot Anim
- A27...Fleet Manouvre
- A28...Billiard Anim
- A29...E/Prise Leaves Dock
- A30...Starwars 2 Anim
- A31...Star Trek Anim
- A32...Fraxion revenge
- A34...Madonna Anim
- A35...Stealthy Anim 2
- A36...Raiders Of The L/Ark
- A37...Bugs Bunny Show
- A38...Iraq V's UK Anim
- A39...Mike Tyson Anim
- A40...Knight Anim
- A42...Walker 2
- A43...Walker 3
- A45-46...Light Cycle (2)
- A47...Exploding Head
- A48...Police Car Chase
- A49...Top Gun Demo
- A50...Animators Demo
- A51...5 Ways To Kill a Mole
- A52...Another 5 Ways
- A53...Batman The movie
- A54...3D Spaceship
- A55...Mr Potato Head
- A57...Camouflage
- A58...VGA Anim 4
- A59...Low Level Flight
- A63...Amy V's Walker
- A64...Real Pinball Anim
- A65...Franklin The Fly
- A66...Porky Pig Anim
- A67...Adventures Of Chuck
- A69...Bunsen Burner
- A70-71...Max Overdrive (2)
- A73...Spaceshuttle Anim
- A74...Ghostbusters + Horse
- A76...Alarm Anim
- A77...Flight Anim
- A78...Piano Anim
- A79...Dart Anim
- A80...Bad Bird Anim
- A81...Holiday Anim
- A82...Fillet The Fish
- A83...The Boings
- A84...Clothes Peg
- A85...Miners Anim
- A86...Pocket Watch Anim
- A90-93...The Movies 2 (4)
- A95...My Tin Toy
- A96...T-Pot 2 Anim
- A99...Terminator 3
- A100...Dolphin Dreams
- A101/102...Thunderbirds (2)
- A103...History of Amy
- A104...Pogo Anim (2 Meg)

#### SLIDES

- S1...Ham Pics Show 1
- S4...Madonna slides
- S5...Moviestar slides
- S6...Party Disaster
- S8...Immaculate Collection
- S9...Simponis Slides
- S10-11...Channel 42 (2)
- S12...Bruce Lee Slides
- S14...Adams Family
- S15...Viz Mag Slides
- S16...Boris 13
- S17...Docklands Jarre
- S18...Dr Who Demo
- S19...Napalm Death
- S20...Nasa Slides
- S21...Exodus 3D Slides
- S22-24...WWF Slides (3)
- S26...Cascade Demo
- S27...Demons Slides
- S28...Total Recall
- S29...Joe's Slides
- S30...Ham Pics Show 2
- S31...D-Point Slides
- S32...Neighbours Slides
- S33...Roger Dean slides
- S34...Iron Maiden Slides
- S35-36...Tobias Richter (2)
- S37...Joe Trsi Slides
- S38...Basket case 2
- S39...Eees Slides
- S40...Fraxion Devine 2
- S41...Fraxion Devine 1
- S42...Golems Gate Slides
- S43...Chainsaw Slippers
- S44...Cry For Dawn
- S45...Forgotton Realms (2)
- S47...Kick Off 3 Slides
- S48...PD Slideshow
- S49-52...Terminator (4)
- S53...Robocop 2 Slides
- S54...Trackmaster Slides
- S55...Forgotton Realms 2
- S56...Garfield Slides
- S57...Pawnbroker Slides
- S58...Hellraiser Slides
- S59...Night Breed Slides
- S60...Raytracing
- S61...Horror Slides
- S63...Tate Gallery 2
- S64...Rock Star Manager
- S65...Images Slides
- S70...Muscle Mania
- S71...Creature Comforts
- S72...The Wonder Years
- S73...Waterproof Down
- S75...Ferrari 348 Pics

#### CLR LICENCEWARE

- CLE01...DINOSAURS (Learn all about certain types of Dinosaurs in Jurassic, Triassic and Cretaceous, on 2 disks £4.50).
- CLE02...GEOLOGY (Want to know all about the volcanoes and their substances then try this. 2 disks £4.50).
- CLE03...SOLAR SYSTEM (Get to know more about the solar system with information on planets etc and with pictures to look at. 3 disks £4.99).
- CLE04...COLOURING PAD (A unique colouring book to keep the kids amused for hours. 1 disk £3.50).
- CLE05...A-CHORD (Learn to play the guitar by listening to nearly every single chord available on the instrument. 1 disk £3.50).
- CLE06...MATHS INSTRUCTOR (Help yourself get through the GCSE's with this superb maths instructor - Trig, Quadratic Simulations, Volumes, Area etc etc. 1 disk £3.50).
- CLE07...FRESHWATER FISHING (Think you know all about fishing? Try this! 2 disks £4.50).
- CLE08...NIGHT SKY (Look at the stars, planets, etc from anywhere on the face of the earth and click on a displayed object for info. 2 disks £4.50).
- CLE09...WORDS + LADDERS (A word spelling game for 1 or 2 players. 1 disk £3.50).
- CLE10...BASICALLY AMIGA (Get to know your Amiga to the full. 3 disks £4.99).
- CLE11...LETS LEARN V1.1 (Learn sums, tunes codes etc on this excellent learning aid. Age range from 5-7. 1 disk £3.50).
- CLE12...ALPHABET TEACH (Try to spell what you see on the screen. 1 disk £3.50).
- CLE13...HOME BREW (With recipes to instructions on fermenting etc. Learn how to make home made wine. 1 disk £3.50).
- CLE14...ECOLOGY (Learn more about ecology with this brilliant program. 3 disks £4.99).
- CLU01...VIDEO TITLER (Make your video look professional. Scrollers etc. 1 disk £3.50).
- CLU02...FISH INDEXER (Make pie charts, graphs etc. with figures. 1 disk £3.50).
- CLU05...SAS MENU MAKER (Make menus to suit you. 1 disk £3.50).
- CLU06...SUPER SOUND 3 (Create your own tunes with this music utility. 2 disks £4.50).
- CLU10...POWER ACCOUNTS (Keep accounts of your expenditure with password function. 1 disk £3.50).
- CLU11...CALC V1.3 (An excellent spreadsheet for those crux calculations. 1 disk £3.50).
- CLU12...VIRTUAL WINDOWS 1 (A collection of useful utilities like address book, note pad, software cats etc. 1 disk £3.50).
- CLU13...DATOS (Easy to use yet very powerful database. 1 disk £3.50).
- CLG01...NORRIS (A very addictive game set in the Medieval era. 1 disk £3.50).
- CLG02...DARK THINGS (A brilliant platform scrology game. 1 disk £3.50).
- CLG03...PHASE 2 (An excellent sideways scroll shoot em up game. 1 disk £3.50).
- CLG04...X-SYSTEM (A very addictive game with the usual end of level monsters. 1 disk £3.50).
- CLG05...TRUCKING ON (Try and manage your own truck fleet. Excellent. 2 disks £4.50).
- CLG06...OBLITERATION (Another fast shoot em up type game. 1 disk £3.50 not Plus comp).
- CLG08...DRAGON TILES (Old Japanese type Maj Jong style game. 1 disk £3.50).
- CLG09...MOTOR DUEL (Drive a 3D car shooting and racing with opponents. 1 disk £3.50).
- CLG10...FUTURE SHOCK (A case of getting the ball through the maze. 1 disk £3.50).
- CLG11...ALL GUNS BLAZING (Car game for 2 players with the overhead view theme. 1 disk £3.50).
- CLG12...BULLDOZER BOB (Wipe out the screen of coloured blocks. 1 disk £3.50).
- CLG13...PARADOX (A puzzle game to test those powers of solving. 1 disk £3.50).
- CLG14...SONIC SMARTIEHEAD (Another platform style game. 1 disk £3.50).
- CLG15...SPLODGE THE REVENGE (Another platform game with puzzles to solve. 1 disk £3.50).
- CLG17...IMBRIUM DAY OF RECKONING (One of those graphic adventure type games excellent. 1 disk £3.50).

#### RAVE & TECHNO PACK

**ORDER NO P.O.1**  
DANCE IN STYLE WITH ALL THE LATEST RAVE AND TECHNO SOUNDS AVAILABLE ON THE AMIGA. THIS PACK IS A MUST FOR ALL YOU RAVERS 10 DISKS FOR ONLY £9.50 +p&p

#### BUSINESS PACK

**ORDER NO P.O.4**  
WHETHER IT'S JUST TYPING A LETTER OR KEEPING A RECORD OF YOUR FINANCES THIS PACK IS A DEFINITE MUST. 10 DISKS FOR ONLY £9.50 +p&p

#### EDUCATIONAL PACK

**ORDER NO P.O.2**  
THIS PACK CONTAINS EVERYTHING FROM LEARNING LANGUAGES TO PLAYING GAMES. AND AGES RANGE FROM 4 TO ADULT 15 DISKS FOR ONLY £14.50 +p&p

#### ROCKFORD PACK

**ORDER NO P.O.6**  
A COLLECTION OF GAMES WHICH ALL INCLUDE THE BOULDERDASH GAME THEME. IT ALSO HAS AN EDITOR SO YOU CAN MAKE YOUR OWN CAVES. 10 DISKS FOR ONLY £9.50 +p&p

#### C64 EMULATOR PACK

**ORDER NO P.O.5**  
THIS PACK EMULATES THE AMIGA INTO A C64 WITH OVER 50 GAMES TO CHOOSE FROM. COMES WITH FULL INSTRUCTIONS. 3 DISKS FOR ONLY £3.75 +p&p

#### CLIP ART PACK

**ORDER NO P.O.3**  
WITH 100'S OF DIFFERENT PICTURES TO CHOOSE FROM THIS PACK IS AN ABSOLUTE MUST FOR ALL YOU DTP AND D-PAINT ENTHUSIASTS. 15 DISKS FOR ONLY £14.50 +p&p

#### ASSASSINS PACKS

- £1.50 EACH
- 10 DISKS...£10.50+p&p
- 30 DISKS...£28.50+p&p
- 40 DISKS...£34.50+p&p
- 54 DISKS...£43.50+p&p
- ALL 70...£58.00+p&p

WE OFFER A FAST AND VERY FRIENDLY SERVICE TO ALL OUR CUSTOMERS WITH THOUSANDS OF TITLES TO CHOOSE FROM. PLEASE SEND A S.A.E. FOR A FREE CATALOGUE

#### ACCESSORIES

- MOUSE HOUSE.....£1.99
- MOUSE MAT.....£2.80
- SQUICK MOUSE.....£19.99
- 10 CAP BOX.....£1.99
- 100 CAP BOX.....£6.99
- A500 DUST COVER.....£3.99
- A600 DUST COVER.....£3.99
- 3.5" BLANK DISKS.....£0.69
- PRINTER STAND.....£4.99
- MONITOR STAND.....£10.99
- MONITOR COVER.....£4.99

#### PRICES

PUBLIC DOMAIN		POSTAGE	
1-9 disks	= £1.50 each	Europe PD	= 60p
10+ disks	= £1.25 each	Accessories	= 90p
20+ disks	= £0.99 each	World PD	= £1.50
		Accessories	= £1.90

#### HOW TO ORDER

ALL YOU NEED TO DO IS PUT THE NUMBERS OF THE DISKS REQUIRED AND SEND IT TO THE ADDRESS BELOW ALONG WITH A CHEQUE OR P.O. MADE PAYABLE TO "DISCOVERY" PLEASE DON'T FORGET TO INCLUDE THE CORRECT POSTAGE TO ENSURE SPEEDY DELIVERY.

#### KICK 1.3

NOW ALL P.D. DISKS WILL WORK ON YOUR A500/A600 & A1200 WITH THIS AMAZING DISK ONLY £1.50

SEND YOUR ORDER TO...



ASSASSIN'S GAMES PACKS 1-70 NOW IN STOCK  
WE ACCEPT ACCESS, VISA AND MASTERCARD



DISCOVERY DEPT (AC), 108 THE AVENUE, CLAYTON, BRADFORD, W. YORKS, BD14 6SJ

# PROJECT-X

## ENHANCED VERSION

TEAM 17 OUT NOW £12.99

Quality is a nebulous concept.

What's one man's meat is another's poison. And nowhere is this more true than in the prodigious world of Amiga shoot 'em ups. Everyone's got an opinion concerning which game is the ultimate blast. My favourite is Team 17's *Project-X*, a silky smooth blast with arcade quality graphics and electrifying gameplay. Once you've picked this up, you'll never want to put it down.

Unfortunately, the original version was also quite hard, and some people found it almost impossible to



(until CU provided one on its December '92 coverdisk!), but the game did provide a tremendous challenge for those willing to invest the time and effort. I should know, I'm still playing it even now!

To help out those who couldn't even complete the first level, Team 17 have tweaked the gameplay to make things slightly easier. Unlike the *Alien Breed Special Edition*, though, Team 17 haven't added any extra levels or included any new aliens to slaughter – they've merely listened to some criticisms of the gameplay.

Sadly, they've gone too far the other way, and things are now too easy. Without losing a life, I managed to reach the start of the third level and didn't even break out into a sweat. In this new version, you begin the game bristling with weapons, making the first few attack waves crumble beneath your overwhelming firepower. As you



No, it's not an end-of-level BOSS, just one of the huge enemy sprites in the game.

get very far without getting totalled. Admittedly, I've never managed to get past level four, but that certainly hasn't kept me from trying. The lack of a cheat was a bit of an oversight

### NOVICES START HERE

If you've never heard of *Project-X* before, hold on to your hats, as here's a whistle-stop guide to its essential features. For starters, it's a shoot 'em up, pure and simple. Aim your on-screen craft in the right direction, stab the fire button, and blast all and sundry into so much intergalactic space dust. Of course, as in any self-respecting game from the genre, there are power-ups aplenty and it's possible to bestow your craft with all manner of weapons such as plasma bolts, sideshots, heat-seeking missiles, lasers and a nifty stealth facility to render your craft virtually indestructible for a certain length of time. Up against you are ranged a deadly collection of bio-mechanical beasts, the results of a series of failed scientific experiments. These evil creations, dumped on the planet Ryxx, now pose a threat to the rest of the galaxy. Your job as intergalactic flyboy is to power down to the planet's surface and blow the whole shooting match sky high. Set over five levels, and featuring some of the best graphics ever seen in an Amiga game, the action comes thick and fast and you need all your reflexes to stay alive.



Don't stand still for too long with this critter on your back. Keep moving, keep firing.

acquire more power-ups, things become skewed in your favour. Instead of losing 25 per cent of your weapons when a ship gets destroyed, you only lose one level of power-up, so you're soon back to where you started after you've scooped up the next power capsule.

And that's it. There's nothing else that's new with this version of the game except that it comes on three disks instead of four. Oh, and the fact that it now costs half as much as the original at a bargain-busting £12.99.

Dan Slingsby

89%

# CAMPAIGN

## FROM NORTH AFRICA TO NORTHERN EUROPE

EMPIRE OUT NOW £15.99



The inspiring battle map. From here you can plan strategies and keep tabs on your tanks.

Coming from *Empire*, you would expect any World War II sim to deal heavily in tanks, as indeed *Campaign* does. In fact, the only halfway interesting part of the game is the simulated tank battles where you can control any of the vehicles involved, from thin skinned scout cars right up to a well armoured Sherman, or the Prize of the Wehrmacht, the Tiger.

This is fair enough if you can be pixel accurate with the mouse, and you can do it in real time as the game unfolds.

This disk hopes to develop the strategy side of the game more. There are 25 new scenarios based on famous campaigns. The battle orders, geography and starting positions are all fairly accurate, but your campaign is unlikely to

proceed in the same way that the original did.

The orders given to troops are just never accurate enough and the logistics is a nightmare – tanks can be stranded in perpetuity through lack of fuel because all the gas has been delivered to the pixel next door.

Since it is possible to create your own scenarios in *Campaign*, the worth of this disk is questionable. The scenarios themselves are well thought out, but can only be as good as the original *Campaign*. Since the only decent part of the game is controlling the tank forces as they clash, and since it doesn't really matter, for the purposes of the simulation, whether they are fighting in Berlin or Basingstoke, I would suggest that scenario disks for *Campaign*, however good, are a waste of time. You'll also need the original program to run the data disk.

Nick Veitch

33%



The tank simulation is good fun and probably covers more different types of vehicle than any other tank sim.

The strategy element is fairly haphazard. You can control the movements of your tanks, the production of factories and the deployment of any active aircraft. This is all done via the mouse on a fairly decent scale battle map.



The strategic overview of the Battle for Berlin II, the sequel.

**THE** A life on the ocean waves, buying low, selling high and climbing the ranks to power. It's all in a day's work for Tony Dillon.

# PATRICIAN

**T**he *Patrician* has to be the Europe-wide surprise hit of 1993. This game has dominated the German charts for longer than anyone can remember, and judging by the response Daze Marketing have received after last month's exclusive playable demo, it's set to repeat that same success in the UK. Who would have thought that a strategic trading game would have done so well?



Your office in your home town. The map on the wall is used for plotting your next route, and the large book contains all the stock prices. What more could you want!



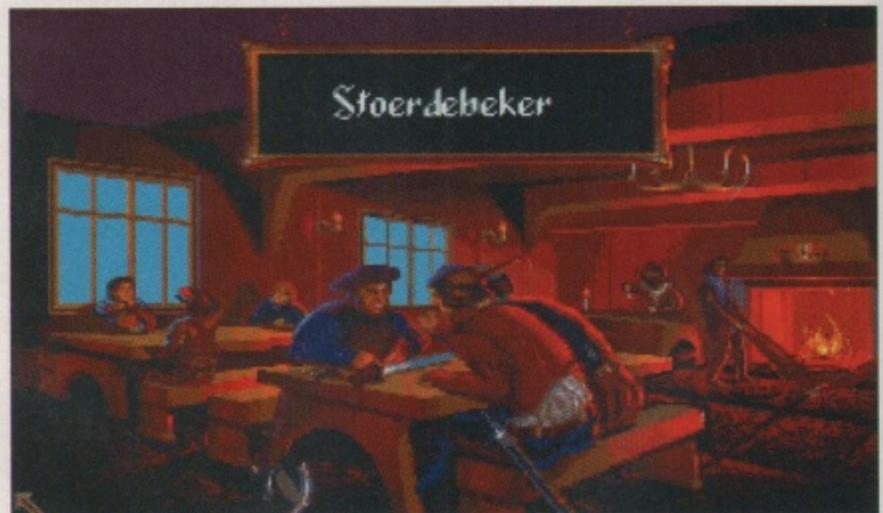
## LECTURE TIME

Just in case you aren't familiar with this particular phase of history, *The Patrician* is set at a time of great change in Europe. The Renaissance is on its way, and all over this great continent traders are calling for some kind of agreement – a union almost – to ensure the safety and livelihood of those who carry cargo from port to port. It's at times such as this that great ideas are born, and in this period the Hanseatic league was created. In essence it worked as the predecessor to the European community. Mayors from the main towns would oversee the running of their ports and would answer in turn to the Alderman of the league, otherwise known as The Patrician.

If you didn't play the demo, you might be wondering what your role in all of this is. In short, you are a simple trader with designs on fame and fortune – well, fortune anyway. Starting the game with a single boat and 200 Thaler to your name, you have to complete a number of tasks. Firstly, you have to become incredibly wealthy through shrewd and

cunning dealing. Secondly, you need to get married. Thirdly, you must rise in public opinion to the point where you are elected Mayor of your home town. Finally you must rise even further and become The Patrician him/herself. And once you've reached the top, you'll probably find that it isn't too easy to stay there.

The first thing you'll need to come to grips with, however, is money. Thaler, the currency of the league, isn't the easiest thing to get your hands on. The safest way to get it is to trade, and with around 40 commodities to barter with, some solid logic is needed. The position of the port and the time of year both play strong parts in the pricing of goods. Corn in summertime is plentiful in most ports, and therefore very cheap



This might look like a rowdy bunch to some people, but in fact these will all work on your boat for a little as 1 Thaler a month.

## ACTION STATIONS!

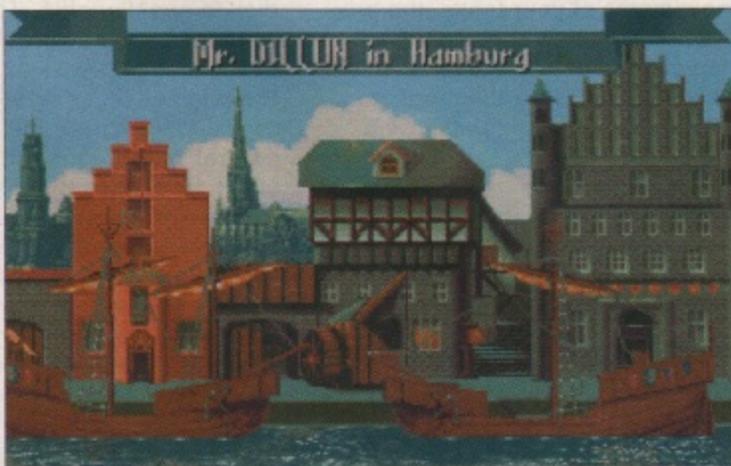
It's not all thinking, you know. Pirates were rife at the time, and that's not too surprising when you consider how much cargo was passing between the towns. As a result, one of the first things you'll need to spend money on are some decent arms for your ship. After all, you never know when a pirate is likely to strike, but when they do, it's bloody. What you have is a full arcade sequence, controlled by the mouse, in which you have to load, aim and fire cannons at the approaching ship before they can do the same to you. Thankfully it doesn't happen too often. You can switch off the arcade sequences and leave the end result for the computer to work out, but it can be a nice break from all that thinking!

indeed. So, buying a large amount, and then waiting until winter, when supplies are low, will guarantee you a good return on your investment. People will always pay high prices for spices and pepper, so when the spice ship arrives, you'd better get down to its port of call as quick as you can. Get there first and you're guaranteed a small fortune.

## SPARE SOME CHANGE?

What if you can't get the money together to make the investment? Then it's time to borrow. At the time,

Hamburg at sundown, and what a lovely city it is. For the sake of simplicity, all cities in the game look like this, so the buildings are always in the same position.







# COMPUTER WORLD

**Free FAST! UK DELIVERY • SAME DAY DESPATCH\* • All prices INC. VAT**

COMPUTER WORLD - WORKING TOWARDS BRITISH STANDARD BS 5750 FOR QUALITY & SERVICE

**800 sq. ft. SHOWROOM**

**TOP NAME BRANDS AT LOW-LOW PRICES**

**FREE EASY CAR PARKING**

**EASY ACCESS FROM M1 M621 M62 A1**

**HOW TO FIND US! Well Worth a Visit!**



**HOW TO ORDER**

For Customers not able to visit our Showroom we offer one of the fastest and most complete mail order services available.

Next day delivery only £5.00  
2 day delivery £3.50

To order by phone:  
**0532-350091**  
Quoting your Credit Card No.



By Post to:  
**PHOENIX COMPUTER WORLD,  
UNIT 2, YORK TOWERS,  
383 YORK ROAD,  
LEEDS LS9 6TA.**

Please make cheques payable to Phoenix. Allow 5 working days for cheque clearance.  
\*Same-Day Despatch on Credit Card Orders/ bankers draft/ building society cheque/Postal orders.

Customer Care/General Enquiries  
**0532-350652**  
FAX: (0532) 350702

## AMIGA 4000

This has got to be the greatest development to the Amiga since its conception in 1985. The 4000-030's are packed full of features and truly represent a milestone in design and value for money from C.B.M.

**WHAT YOU GET!** • 68030c processor • 25Mhz clock speed • Optional Chip and Fast RAM configurations (expandable to 16 Mb on mother board, 2 gigabyte max • 9 interfaces • 4-16/32 bit Zorro III expansion slots • 80/120 hard disk and lots more!!

**STAR BUY**

A4000-030	with 80/120Mb HD Memory options	Chip RAM	Fast RAM	Price
A4000-030 80Mb	1	1	0	£959.99
A4000-030 80Mb	2	0	0	£959.99
A4000-030 80Mb	2	0	0	£1019.99
A4000-030 80Mb	2	4	0	£1069.99
A4000-030 120Mb	2	2	2	£1160.99

All the above include FREE next working day delivery. Prices are correct at the time of going to press

### NEED EXTRA FAST RAM?

**NOW AVAILABLE!! 32-Bit Memory Modules**

1 Mb	£36.99	4 Mb	£139.99
8 Mb	£299.99		
FPU's 25 Mhz/50 Mhz	£POA		

## AMIGA 1200

**FEATURES INCLUDE:** 68020 Processor Running at 14 Mhz • 2Mb Chip RAM (expandable) 256 colours on screen from a 16.8 million colour palette • Full Amiga Key board (with Alpha numeric key pad).

**CW PRICE** ..... £359.99

### A1200 HARD DRIVE UPGRADE PACKS

All 2.5" IDE Hard disks offer ultra fast access time and are supplied from leading manufacturers such as western digital/seagate. Pack also includes cable screws and software.

40Mb pack...£119.99 60Mb pack...£169.99

80Mb pack...£199.99 120Mb pack...£294.99

1 year warranty on all models!!

**GVP A1230 Turbo +** ..... £289.99

INCLUDES: the 40MHz 68030c-accelerator chip, optional 40MHz fpu (68882) - up to 32 Mb

**GVP A1230 4Mb + Co Pro** ..... £479.99

INCLUDES: the 40MHz 68030c-accelerator chip, 40MHz fpu (68882) - up to 32 Mb for the most hungry applications, simply awesome!! (Both on demo)

**Memory 32-bit**

1 Mb.....£65.99 4Mb.....£179.99

16Mb ..... £POA

### A1200-PCMCIA FAST RAM EXPANSION

Credit card memory now available

2Mb.....£114.99 4Mb.....£169.99

### POWER-PC 1204 4Mb

Memory expansion for the A1200, features include: Zero wait state • Optional Ultra fast FPU (50Mhz) • Real time battery backed clock • Low power • Optional FPU disable switch

PC 4 Mb (no FPU).....£185.99

PC 4 Mb (20 Mhz 68881 FPU).....£259.99

PC 4 Mb (25 Mhz 68882 FPU).....£279.99

PC 4 Mb (33 Mhz 68882 FPU).....£289.99

PC 4 Mb (40 Mhz 68882 FPU).....£299.99

PC 4 Mb (50 Mhz 68882 FPU).....£339.99

includes real time clock

### A 1200 ACCESSORIES

CW A1200 real-time clock easy to fit 1 yr warranty ..... £15.99

CW A1200 600 HD prep disk ..... £3.99

Control Centre (inc. FREE cables).....£36.99

Dust Covers.....£5.99

Multi-Sync Monitor adaptor cable.....£12.99

## A1200 ACCELERATORS

The Microbotics M1230XA is available in a 40Mhz version & a 50 Mhz inc memory management unit. This peripheral can expand up to 128 Mb of FAST 32-bit memory. Existing MBX users can transfer their current memory and fpu and includes real-time clock

M1230XA 40 Mhz 0Mb	£269.99
M1230XA 40 Mhz 2Mb	£349.99
M1230XA 40 Mhz 4Mb	£428.99
M1230XA 40 Mhz 8Mb	£569.99
M1230XA mmu 50 Mhz 0Mb	£349.99
M1230XA mmu 50 Mhz 2Mb	£428.99
M1230XA mmu 50 Mhz 4Mb	£499.99
M1230XA mmu 50 Mhz 8Mb	£642.99

## A 570 CD-ROM

Long awaited, superb performance, tempting but too expensive-NOT ANY MORE!!!! This excellent interface for A500/500+ owners is now at a price that YOU can afford. Use it to exploit stunning software packages or simply to listen to your favourite tunes

**WHAT YOU GET!!!**

**WHAT YOU PAY** ..... £149.99

• A570 CD ROM • Fred Fish Disks 1/660 • Sim City. NB you need at least 1Mb of chip ram check with telesales before ordering

## AMIGA'S

### 'CARTOON CLASSICS PACK'

It's Back and it's bad - the pack they tried to kill returns for its final mission - don't miss this golden opportunity to acquire one of the best ever home computers, features include: 1 Mb of RAM Workbench 2.04 • TV modulator • Lemmings • Captain Planet • The Simpsons • Deluxe Paint III

**CW PRICE**.....£194.99

### 'THE WILD, THE WEIRD & THE WICKED'

1 Mb A 600 as standard and includes the excellent value Software titles: Deluxe Paint III • Formula One Grand Prix • Putty • Pushover

**CW PRICE**.....~~£224.99!~~ **REDUCED!** £224.99!

A 600 2Mb (incl. above software).....£264.99

**A600 Base Pack**.....**NEW!** £194.99

A 600 2Mb (incl. above software).....£234.99

### 'EPIC • LANGUAGE PACK'

1 Mb A 600 as standard and includes 20MB HARD DRIVE the excellent value Software titles: Deluxe Paint III • Trivial Pursuit • Epic • Myth • Rome

**CW Price** .....~~£359.99!~~ **REDUCED!** £359.99!

A 600 2Mb + 20 Mb Hard Drive .....£399.99

(both include the above detailed software)

EXTRA MEMORY-Only £39.99 per Mb.

## MONITORS

All monitors are supplied with a FREE cable for connection to your Amiga.

### WHAT YOU GET!!!

**COMMODORE 1942 14" Monitor** Ideal for A1200/4000 • AGA • 28mm Dot Pitch • Tilt 'n' swivel stand • Built-in Stereo Speakers • Works with ALL Amigas in most resolutions • 1 yrs on-site warranty

**COMMODORE 1940 14" Monitor** Specification as above, but this one has a 39mm dot pitch

**PHILIPS 8833Mk II**.....~~£194.99~~ **REDUCED!** £194.99

Col. Stereo Monitor inc 'Lotus Turbo Challenge', + 1 yrs on-site warranty.

**COMMODORE 1960** .....£394.99

Col. multi-sync monitor works in all A1200/4000 modes inc low-res.

ADD £29.99 if you would like COMPUTER WORLD

STEREO SPEAKERS bundling with your order.

### MONITOR ACCESSORIES-

14" dust covers...£4.99 14" tilt & swivel stand...£13.99

Anti-glare filter screen...£19.99 A4 copy holder...£12.99

## MEMORY EXPANSION

**A 500+**  
A RAM module can expand your chip RAM up to 2 Mb using the trapdoor expansion port. All our boards carry full 2 year no quibble replacement guarantee. It's never been cheaper to upgrade!

**CW PRICE**.....£39.99

1 Mb unpopulated RAM board.....£16.99

**A 500**

1/2 Mb inc. clock.....£29.99

**A 600**

PA 601-populated-1Mb.....£39.99

PA 601-unpopulated-0Mb.....£24.99

PA 602 2 Mb PCMCIA card...**NEW LOW PRICE!** £114.99

PA 604 4 Mb PCMCIA card...**NEW LOW PRICE!** £169.99

## HARD DRIVES

**GVP IMPACT SERIES II Hard Drives, the fastest Hard Drive/Controller for the Amiga.** Features Game Switch, external SCSI port, FAASTROM SCSI Drive, GVP's custom VLSI chip and internal RAM expansion up to 8 meg! Units use high specification fast-access QUANTUM Hard Drives coming with 2 yr. guarantee.

**500/500+**

A500-HDB + 42 Mb .....~~£244.99~~ **REDUCED!** £244.99

A500-HDB + 80 Mb .....~~£342.99~~ **REDUCED!** £342.99

A500-HDB + 120 Mb .....~~£389.99~~ **REDUCED!** £389.99

A500-HDB + 213 Mb .....~~£564.99~~ **REDUCED!** £564.99

A500-HDB controller only .....£179.99

**1500/2000**

Series II Hard Disk Controller/RAM card.....£122.99

Series II 42 Mb Hard Disk and RAM card.....£284.99

Series II 80 Mb Hard Disk and RAM card.....£329.99

Series II 120 Mb Hard Disk and RAM card.....£406.99

Series II 213 Mb Hard Disk and RAM card.....£544.99

**BOOST YOUR AMIGA'S PERFORMANCE WITH EXTRA MEMORY - ONLY £29.99**

## ACCELERATOR-HARD DRIVES

**500/500+**

GVP Combination Accelerators & Hard Drives-ultimate expansion product for the Amiga 500!

A530 Combi 40MHz + 42Mb **NEW LOW PRICE!** £474.99

A530 Combi 40MHz + 80Mb **NEW LOW PRICE!** £569.99

A530 Combi 40MHz + 120Mb **NEW LOW PRICE!** £659.99

A530 Combi 40MHz + 213Mb **NEW LOW PRICE!** £744.99

A530 68882 Co-Processor.....£219.99

**1500/2000**

GVP G-Force 030-25MHz + 1Mb.....£474.99

GVP G-Force 030-40MHz + 4Mb.....£757.99

GVP G-Force 030-50MHz + 4Mb.....£1136.99

GVP G-Force 040-33MHz + 4Mb.....£1419.99

### GVP Accelerator RAM

1Mb Simm-32 Bit 60 Nanoseconds.....£65.99

4Mb Simm-32 Bit 60 Nanoseconds.....£179.99

## BOOKS

We stock the best selling range of Bruce Smith books

Mastering Amiga DOS Vol 1.....£21.99

Mastering Amiga DOS2 Vol 2.....£19.99

Mastering Amiga W.B. 2.....£19.99

Mastering Amiga C.....£19.99

Mastering Amiga Printers.....£24.99

Mastering Amiga System.....£29.99

Mastering Amiga AMOS.....£19.99

Mastering Amiga AREXX.....£21.99

Mastering Amiga Beginners.....£19.99

A600 Insiders Guide.....£14.99

A1200 Insiders Guide.....£14.99

## PRINTERS

**COMPUTER WORLD PRINTER PACK**  
Supplied with ALL printers containing 1.8m std. printer cable, printer ribbons/cartridge and 250 sheets of paper absolutely **FREE**.

COMPUTER WORLD ARE A  
**"CITIZEN SUPER DEALER"**

CITIZEN CITIZEN CITIZEN

### Swift 90 Colour

1 PIN colour printer is fast quiet, has additional fonts and comes complete with a 2 year warranty and V.2.0 Amiga driver disk!

**NEW NEW NEW**  
**£169.99**

Swift 90 Mono	NEW £154.99
Swift 240 Colour	£269.99
Swift 240 Mono	£259.99
Swift 200 Colour	£219.99
Swift 200 Mono	£192.99
Citizen Auto sheet feeder	£79.99

Citizen printers come with 2 year warranty. + V.2.0 Amiga driver disk

## BUBBLE JET

MAJOR DEALER • MAJOR DEALER

**Canon Canon**

### CANON BJ 10Sx

Upgraded version of BJ10ex, the worlds biggest selling portable inkjet printer. Newly designed front end, faster print times, more fonts, 95% Amiga Gold Award, includes BJ10Sx Driver Disk!

**NEW NEW NEW**  
**£227.99**

CANON BJ 200 95% Amiga Gold Award... £319.99

Feature include: 300 dpi. • Min 80 page Auto sheet feeder • minimum 3 pages per minute **SUPER VALUE!**

CANON BJ 230 £374.99

Wide carriage version of BJ200

CANON BJ 300 £429.99

80 column bubblejet provides laser quality output.

CANON BJ 330 £499.99

95 column bubblejet.

CANON BJ ex/sx cartridges £17.99

CANON BJ 200 cartridges £24.99

BJ 10 ex/sx Autosheet feeder £49.99



LC-100 Colour £155.99

LC24-100 £189.99

LC-20 £132.99

LC-24-20 (II) £224.99

LC-200 Colour £199.99

LC24-200 Colour £264.99

LC24-200 Colour £379.99

SJ48 Bubblejet £219.99

Star printers come with one year warranty.

### AUTO SHEET FEEDERS

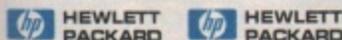
STAR LC20 £57.99

STAR LC200 £59.99

STAR LC24-200 £62.99

STAR LC24-20 £62.99

STAR SJ48 £49.99



HP Portable £359.99

HP 510 Mono £319.99

Successor to the top-selling 500 Mono

HP 500 (Colour) £446.99

HP Deskjet 550 (Colour) £579.99

Prints faster than previous HP range • Top sellers • superb printers HP printers come with 3 year warranty.

HP Deskjet 1200C Laser/inkjet £1369.99

6 scaleable fonts, P.C.L. level 5, 6 pages per min. 300x600 dpi (if using the resolution enhancement technology 4 pages per min.) 2Mb of RAM expandable to 26 Mb, laserjet compatible.

HP Laserjet 4L £624.99

6 pages per minute, laser easy to install & use, no on/off switch (turns off automatically when not in use) 1 tray 100 sheet 50 output. 26 scaleable typeface's, microfine toner, 200ppm, 1Mb of RAM expandable to 2Mb.

HP black ink cartridge £24.99

HP colour ink cartridge £29.99

### PRINTER ACCESSORIES

We have a large range of high quality printer accessories for all the printers we sell including:

Best covers from £2.99 • Ink cartridges from £1.99 • Mono ribbons from £3.50 • Colour ribbons from £7.99 • Printer stands from £7.99

## MICE & TRACKBALLS

GOLDEN IMAGE-Mega Mouse £12.99

Received 90% Amiga Format Gold Award

Mega Mouse 2 £16.99

Newly designed, 400 dpi, an absolute must!!

Optical Mouse £29.99

High precision, pointing device.

Crystal Trackball £37.99

Infrared-Cordless-Mouse £47.99

(Rechargeable top selling innovation.)

Optical Pen Mouse £39.99

High Quality 8mm mouse Mats £3.99

Auto Mouse/Joystick Switch £15.99

Don't damage your Amiga's ports! This device saves wear and tear makes switchover **FAST**.

## SCANNERS

Powerful image processing tools for the office or the home environment.

**POWER-Features Include:** 100-400 dpi • 64-Greyscales Thruport to printer • **FREE** Editing software.

Power Scanner v3.0 £109.99

Includes **FREE** upgraded editing software.

Power Scanner Colour £234.99

**GOLDEN IMAGE-**

Alfascan Features: Scan and Save • Migraph Jnr. OCR software • 400 dpi • 256-Greyscale • Not A1200/4000 compatible.

CW PRICE **NEW LOW PRICE!** £139.99

Alfascan+ Features: Touch up an merge it • Migraph Jnr. OCR software • 400 dpi • 256-Greyscale • 100% compatible with all Amigas.

CW PRICE £169.99

**AMIGA MUSIC**

Technosound-turbo £29.99

Pro-Midi 2 Interface £24.99

This fully featured professional quality midi interface is very flexible giving semi-patch bay facilities. It has four ports 2 in, 2 out, (inc. **FREE** midi lead)

GVP Digital Sound Studio £39.99

High quality sound sampler for all Amiga Computers.

'MIRACLE' KEYBOARD £279.99

It really does teach you how to play!!! Full size keyboard with built in MIDI interface • 100 onboard sounds with effects • ability to customise lessons by use of artificially intelligent software!!

**MULTI-MEDIA**

Computer world are a major stockist of rombo's multi-media products for the Amiga and P.C. Be assured that we offer extensive technical backup on all Rombo products and that the majority are on demo in our showroom.

Vidi Amiga 12 RT (AGA support) £135.99

Real-time colour capture from any video source

Vidi Amiga 24 RT (AGA support) £224.99

24-Bit Real-time colour capture from any video source for the professional/serious user

Vidi Amiga 12 (AGA version) £77.99

Vidi Amiga 12 (Std version) £75.99

Rendale Genlock 8802 £164.99

Roctec P.I.P View £113.99

GVP Genlock **NEW LOW PRICE!** £284.99

Vidi Amiga 12 price includes insured postage for extra peace of mind!

## ACCESSORIES

Control Centre £34.99

Heavy duty construction, rubber edging, perfect colour match, makes an ideal workstation for the A500/A500+ A 600 control centre now available.

CW Stereo speakers £37.99

Superb sound and excellent dynamics. These two-way stereo Hi-Fi speakers are an Amiga standard.

Analogue Joystick adaptor £9.99

Gravis Joystick £21.99

Gravis game pad £19.99

Intruder 1 (Flight Sims) £24.99

Freewheel (Analogue) £38.99

Python 1m £9.99

QJ Turbo £7.99

Cruiser £9.99

SG Pro Pad £14.99

Zipstick Auto Fire £11.99

Konix Analogue (Flight Sims) £14.99

BUG £9.99

Cruiser £9.99

Pro 5000 £12.99

Mini Pro 5000 £12.99

Beetle Mouse (for kids) great dpi £14.99

Foot Pedal £24.99

DATA SWITCHES (25 pin D type)

2 way £15.99 3 way £17.99 4 way £19.99

## DISKS

Don't confuse these quality disks with others currently available. 3.5" 100% certified error free 70% clip. All disks include **FREE** high quality CW labels.

10	£4.99	200	£72.99
25	£12.99	500	£174.99
50	£22.99	750	£259.99
100	£39.99	1000	£339.99

Dysan Branded disks- Now available in rainbow packs with clear plastic box + 10 labels at the same price as standard

10	£5.99	100	£52.99
50	£28.99	500	£249.99

1000 Computer World Disk Labels £9.99

## DISK DRIVES

All drives feature super slim design, enable-disable switch, thru port and come with a **1 year replacement guarantee!**

Computer World Deluxe Drive £54.99

Roctec Roclite **NEW!** £64.99

This famous drive has now been upgraded to include Anticlick and Virus Checker

Disk head cleaner £3.99

## LEADS & CABLES

Midi-Midi 2m £3.99 Modulator ext. £9.99

Midi-Midi 3m £4.99 Amiga-Scart £9.99

Midi-Midi 5m £5.99 Amiga-0033Midi £9.99

Disk Drive ext. £9.99 Joystick long ext. £4.99

Mouse/Joystick ext. £4.99

Mouse/Joystick splitter £4.99

\*Serial/Modem cables £9.99

\*Amiga-Multisync from £9.99

\*Amiga-Microvitec £9.99

\*Amiga-CPC monitor £9.99

\*Amiga-RGB/TV £9.99

\*SCSI Cable various £9.99

Printer 1.8m £5.99 Printer 2.0m HQ £7.99

## GAMES-LEISURE

Graham Gooch Cricket £28.99

F-19 Stealth Fighter £14.99

Operation Stealth £14.99

Tank Platoon £14.99

Flashback £28.99

Body Blows (Team 17) £24.99

Superfrog (Team 17) £24.99

Lemmings 2 (Psygnosis) 1Mb £27.99

Desert Strike (E. Arts) £27.99

Sensible soccer £23.99

Chuck Rock 2 (Son of chuck) £23.99

Street Fighter 2 (US Gold) £25.99

B17 Flying Fortress (Microprose) £29.99

Zool (Gremlin) £23.99

Humans (Jurassic Levels) £27.99

Abandoned Places (Ice) £32.99

Premier Manager (Gremlin) £23.99

Nick Faldo's Championship Golf £32.99

Historyline 1914-1918 (Blue Byte) £32.99

Sleepwalker-comic Relief (Ocean) £23.99

Indy Jones & Fate of Atlantis (US Gold) £36.99

Legends of Valour (US Gold) £37.99

Wing Commander (Mindscape) £32.99

Sportsmasters (Empire) (A1200 compatible) £27.99

Inc PGA Tour Golf • European Championship Soccer • Indy 500 • Advantage Tennis

Syndicate **NEW!** £P.O.A.

The Lost Viking **NEW!** £P.O.A.

The Ancient Art of War in the Skies **NEW!** £P.O.A.

Goal by Virgin Now by dino Dini **NEW!** £P.O.A.

Beavers Grandlam **NEW!** £25.99

## MODEMS

US Robotics Authorised Reseller

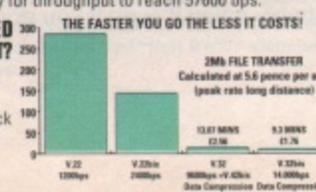
The No 1 name in fax modems - US Robotics pride themselves on high quality modems at an affordable price. They come backed with a 5-year warranty and are fully BABT approved.

THE SPORTSTER £294.99

This modem incorporating data pump technology, operates at 14400 bps standard. It is 50% faster than 9600 bps modems and has full error control and data compression. It has the ability for throughput to reach 57600 bps.

WHY IS SPEED SO IMPORTANT?

(ask Tele-sales for a full information pack if required)



## SOFTWARE

### ACCOUNTING

Arena Accounts	£82.99
Personal Finance	£29.99
Manager Plus Home Accounts 2	£39.99
System 3	£39.99
System 3E	£54.99
Cashbook Combo	£54.99
Day by Day	£22.99

### ANIMATION

Deluxe Paint 4 AGA	£69.99
Morph Plus	£159.99
Real 3D Classic	£77.99
Real 3D V2	POA
Take 2	£36.99
Personal Paint	£46.99

### CAD/DRAWING

X-CAD 2000	£99.99
X-CAD 3000	£249.99

### DATABASE

Mailshot Plus	£36.99
Superbase 2	£19.99
Superbase 4	£102.99

### MUSIC & SOUND

KCS Level II v3.5	£219.99
Bars and Pipes Pro V2	£249.99
Kits for Bars and Pipes	£44.99
Super Jam v1.1	£89.99
The Patchmeister	£62.99
Triple Play Plus	£164.99
SyncPro	£184.99
One Stop Music shop	£564.99
AMAS 2	£74.99
Clarity 16 (16 bit sampler)	£114.99
Quartet	£39.99
Stereo Master	£29.99
Videomaster	£52.99
Deluxe Music not v20	£52.99
Megamix Master	£29.99
TechnoSound Turbo	£29.99
Techno Sound Turbo 2	£36.99
The Music Librarian	£29.99

### PRESENTATION & SLIDESHOW

Can Do V2	£99.99
-----------	--------

# VFM

In these recessionary times we know that every penny counts. So, penny pinchers rejoice, CU AMIGA is here to help you get the best value for money from all those hard-earned coins.



## THE IMMORTAL HIT SQUAD OUT NOW £12.99

Way back in the mists of time, when this game first appeared as a full-price release, I almost gave up my ST so I could play this on an Amiga. Unfortunately I didn't, which is a damn shame 'cos I wouldn't have had to have waited until now to sample the rich delights of *The Immortal*.

*The Immortal* is an isometric RPG. The player takes the role of an unnamed wizard drawn to the dungeons of Erinoch after a plea for rescue sent in a dream by your old mentor, Mordamir. You progress through the depths by a little fighting, a little spell-casting, and a lot of problem solving. This dungeon is full of traps and monsters just waiting to catch the unwary off-guard and, as many are instantly fatal, it pays to be cautious.

The control system is fairly simple, with the joystick and spacebar controlling most things. However, combat does take a while to get used to, especially fine tuning your parrying skills; but then again who ever said that fighting seven foot tall Trolls was easy? Once you get used to the controls



These flashing lights may look pretty... pretty dangerous. They're Will 'o the Wisps and can be utilised as a sort of missile attack.

there's plenty of time to soak up the excellent graphics and eerie spot sound effects. From the simple sputtering of torch flames to the rich combat sequences every pore of the animations scream quality.

But we've all seen games that look fantastic yet have little or no gameplay. Thankfully *The Immortal* does not fall into that league. There are puzzles galore to solve, most of which involve finding an appropriate object to throw, cast or twiddle at the right time. However, it's here that the game's cracks begin to show. There are instances where you are immediately killed if you do not have those objects. Yes, I know that's what it would be like in 'real' life but this isn't, it's just a game. The frustrating aspect of this part of the gameplay is that you can only save the game once you've completed a level. So, if you reach the penultimate room on a level and are killed you'll have to play the whole of that section again repeating all the same moves you made before. That aside the graphics and general playability of the whole thing make *The Immortal* a game not to be missed. Hell, you'd probably enjoy it even if you don't normally like RPGs.

Jon Sloan

84%



Tread carefully in this dungeon as danger lurks around every corner.



Our hero does his Carl Lewis impression as he avoids a horde of marauding skeletons, only to jump into the arms of a loving gargoyle.

## MYTH KIXX OUT NOW £9.99

Taking its storyline from various myths and old wife's tales, *Myth* offers a halfway house between traditional hack and slash platformers and arcade adventures. In other words you run around various platforms hacking monsters and solving simple puzzles.

This mixed bag has been tried before fairly successfully – look at the Bitmaps' *Gods*, for instance. *Myth* follows roughly the same lines in that you play a muscle-bound adventurer carrying out some obscure quest or other to rid the world of demons.

These enemies range from basic skeletons to larger foes, such as the Medusa, a woman with snakes for hair and a deadly gaze that can turn you to stone. The standard baddies require little more than a punch or slash to kill them, but others require you to have a knowledge of legends if you're to figure out which weapon you'll need. Unfortunately some of the vital weapons are one shot only and as the bigger monsters require specific ones to kill them, further progress is impossible if you trigger a weapon at the wrong time.

Control of the main character leaves something to be desired. Although each weapon has several ways of implementing it, the reaction to your controls feels sluggish and slightly unresponsive. As for the sprites, they are detailed but lack the smooth animation necessary to make them convincing, this failure spoils otherwise fine graphics.

The sound is also unremarkable, although there is a nice tune on the title screen which fits in well with the atmosphere of the game, the effects within the game are not exactly mind-blowing. They're limited to simple punching and shooting sounds. The backgrounds vary from level to level, bringing a different atmosphere to each, ranging from dark and moody on the underground levels to bright and breezy on the island of the nymph.

*Myth* is both challenging and addictive and although the puzzles aren't much to speak of, they do give the game an extra something that lifts it up from being just another platform game. That is not to say that *Myth* is an exceptional game – in fact, there's nothing here that hasn't been done before, but what you are getting is a solid game for a reasonable price.

79%

Tom Alexander



At the end of the first level this guy will pop up from the depths of hell. Don't worry you don't have to fight him, but you do have to battle the thing in his hand.

# MANCHESTER UNITED EUROPE

KRISALIS OUT NOW £9.99



Unfortunately I seem to have miscalculated as Bruges sweep down the wing for a concentrated attack from the corner. Oh, it's just like the real thing.

It's been two years since *Man Utd. Europe* was released at full-price and since that time we have seen the likes of *Sensible Soccer*, *Striker* and *Goal!*. How does *Man Utd. Europe* fare against these newcomers? Not terribly well I'm afraid – it looks somewhat dated to say the least.

The game uses a side-on view to convey the action, which is irritating when compared to *Sensible's* much more practical top-down view. In fact, it's probably safe to say that this way of viewing footie action has been well and truly permanently relegated. The side perspective means that good passes are hard to perform and makes gameplay more difficult than it should be. This, combined with the fact that the ball sticks to the players' feet, makes *Man. Utd Europe* feel very dated indeed. Although there are plenty of different shots on offer, none of them seem to be really accessible at the time when you really need them. Overall, the control system is just not fluid enough and leaves you screaming obscenities at your Amiga and using that old 'It was the joystick, not me, honest' excuse.

Don't let this make you think that *Man Utd Europe* is total rubbish – there are some good options in there. You can play in a number of European cups and there is a wide selection of European teams available. You can even have four players playing simultaneously in pairs. This is quite a laugh, as by the end of the match the losing team will be arguing furiously about the general crapness of their team mate. The graphics are pretty good too, all the sprites are detailed and move in a fairly convincing way. There is also the usual spot-effects during play and quite a nice tune at the beginning.

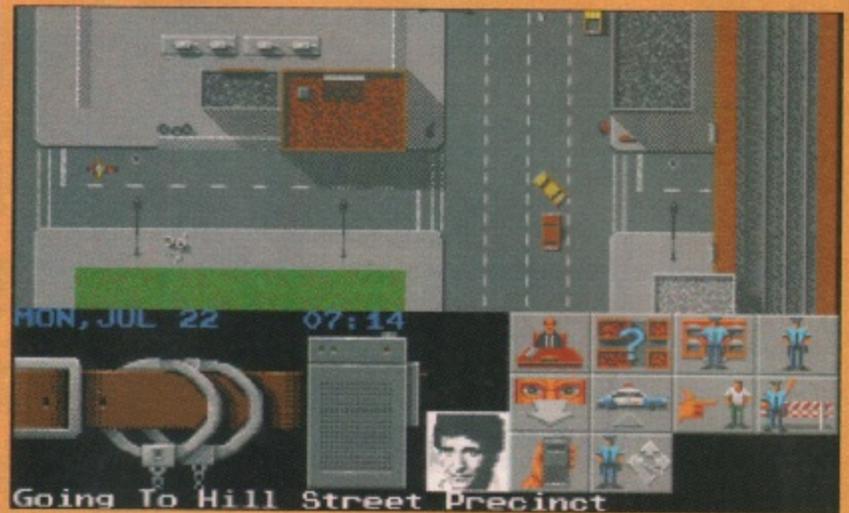
Although this is at a budget price, if you're looking for a good football sim, and haven't already got *Sensible Soccer*, *Striker* or *Goal!*, then you'd be well advised to save your money and buy any one of those. If you've got one already and are looking for something a bit different then *Man Utd. Europe* is worth a look, especially if you have three friends handy.

Tom Alexander

70%



They shoot, they miss! How come my goalie prefers to spend all his time flat on his back? Perhaps he's been taking lessons from Dan.



Going To Hill Street Precinct

I hated this guy in the series – he always seemed to be picking the girls up. Revenge at last – I've confined him to the station house. No more girl getting antics for him.

# HILL STREET BLUES

KRISALIS OUT NOW £9.99

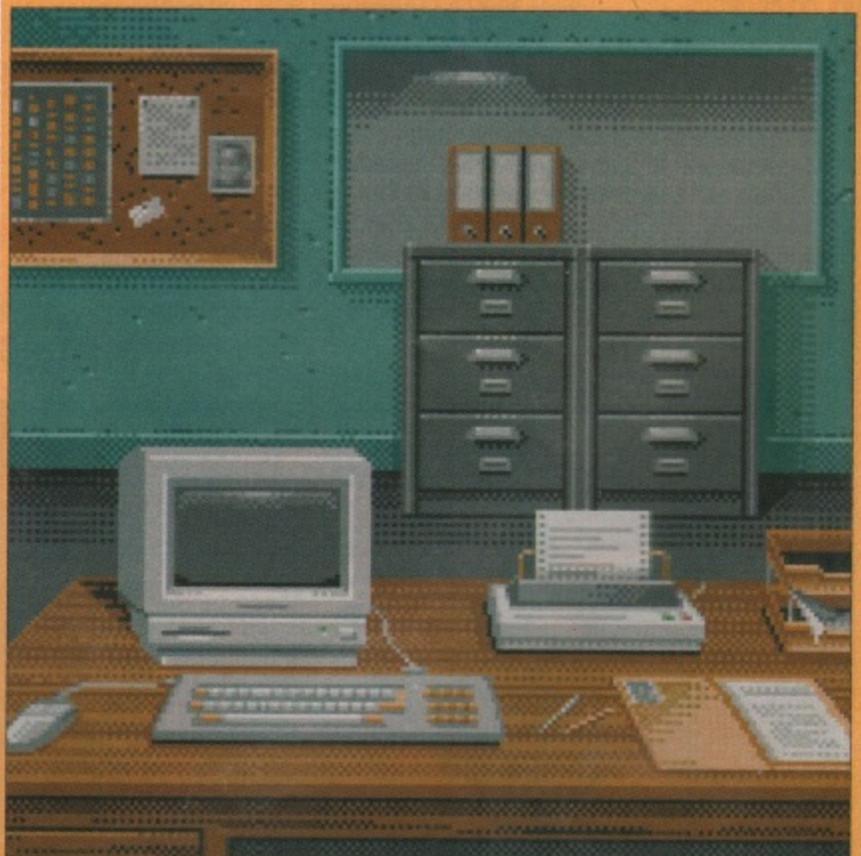
*Hill Street Blues* is, fairly obviously, based upon the famous TV series of the same name, and sets out to simulate the running of an American Police precinct. But therein lies its problem – it emulates it rather too well.

You get to play Captain Furillo (he's the one that had an incredibly fit wife and they always seemed to end the TV show with them in bed together). As the Captain, not only are you in overall control of the station, but you're also in control of each of the officers. Now, this may seem great, having total control of the station, but unfortunately it's been so poorly implemented that the game just doesn't work. You have to tell your officers to do every single thing, right down to ordering them to get out of their car to walk to the scene of the crime. This means that you spend too much time doing the mundane things such as looking for the scene of the crime on a map or telling each officer to walk to their car, so when a crime actually happens you'll either have fallen asleep or have tried to make your officers walk under the nearest bus. I mean, forgive me if I'm wrong, but I always thought that cops had a modicum of intelligence. Then again...

The graphics are pretty minimalistic and the scrolling is almost unbearably slow. This makes an already flawed game annoyingly bad. It's a shame, because I feel that if the game design was just a bit more sensible and the graphics made smoother, then this could have been an enjoyable strategy game. As it stands it's just a lesson in tedious gameplay and a wasted licence.

Jon Sloan

41%



Returning to his office Captain Furillo pauses before selecting the personnel records. Aha, now I can find out just what that SWAT team leader was hiding. He always seemed a bit too macho to me.



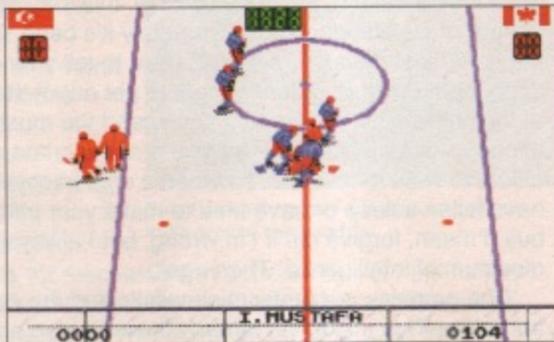
After many hours of blatant fouling, the Scot's team finally rises to the bait and a fight breaks out.

## FACE OFF

KRISALIS OUT NOW £9.99

Have you had a chance to read the review of *Manchester Utd. Europe* yet? If not, go and read it now before you carry on with this one. There, done it? Good. Now, simply substitute ice hockey for football and you'd have an almost perfect description of *Face Off*.

Viewed from the same side-on perspective, *Face Off* is an ice hockey simulation without the blood and broken teeth. Call me an ultra-violent sadistic gun-fetishist (everyone else does), but the real pleasure for me in watching ice hockey only comes when one of the frequent punch-ups break out. Unfortunately, *Face Off* falls short of reality here. Admittedly, fights do occur but all you get to see is a still screen of two players pushing ineffectually at each other. Where's the blood? Where's the flying fists? What a let down.



Scrambling for domination on the centre line Canada and Turkey resort to some pretty fierce name calling. Try as I might I just couldn't get the Turks to engage in a little fisticuffs.

The rest of the game fails to live up to scratch too. The control system, though intuitive, feels very spongy and leaves you with a sense of frustration. The graphics are little better than poor and, as for the in-game sound effects, the less said about them the better. Which is probably what the programmers thought as they consist of little more than the odd grunt and crash.

To try to stretch out the pitiful gameplay there's a management option which allows you to train players, treat injured ones, etc. There's even the ability to give them a night out on the town before a match which actually helps them play well the next day. Personally, after a night out, I'm good for little more than sipping iced water... very slowly and very quietly!

If you absolutely love ice hockey then you may get some enjoyment out of this game. Alternatively I'd wait for EA's version on the same theme, due out later this year.

Jon Sloan

38%



Unfortunately, once it's started you don't get a little beat 'em up sub-game, just this still screen.



Once you've selected the air-to-air missiles a quick key press will target them on the nearest plane. Just a bit closer and you'll get missile lock long enough to fire a missile right up his tailpipe.

## MIG 29 FULCRUM

HIT SQUAD OUT NOW £12.99

Flight sims are, perhaps, the most poorly represented of Amiga games genres. It's not that there aren't many to choose from, it's that there are so few that are any good. Unfortunately, this game isn't one of the few.

As usual the game comes with a fairly huge manual detailing every aspect of flying a supersonic jet fighter, including a section on tactics and air combat. Also as usual it's not until you've crashed and burnt two or three times that you actually take the time to read every page in it!

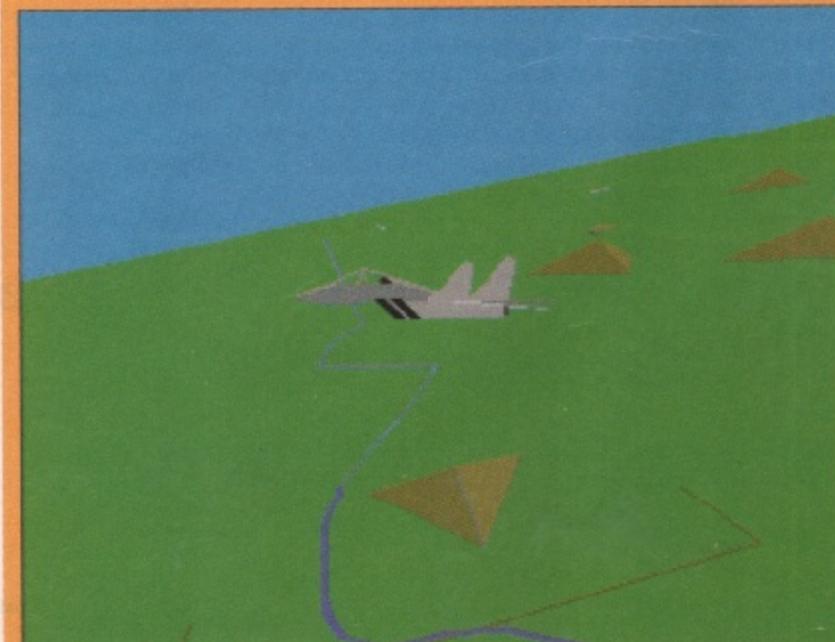
Once you've got a grasp of the controls, *MIG 29* is fairly easy to fly, perhaps the best analogy being that it is to planes what the Kalashnikov is to guns – easy to use, easy to maintain and very deadly! In fact it's quite novel to fly a plane that is usually flying against you in other flight sims. However, once that novelty has worn off the cracks in the game become all too obvious.

When it was first released *MIG 29* received great praise for its speed and smooth scrolling. But this came at a price – the almost complete obliteration of any ground detail. This is immediately obvious, but I was hoping that the lack of detail was just something that occurred on the practice missions. I had hoped that, once you set off to do some real attack runs, cities would scroll beneath you, mountain ranges would spring up on the horizon etc. No such luck.

*MIG 29* suffers from all the faults so prevalent in most other Amiga flight sims – lack of detail, poor sound, lack of realism – only more so. Don't get me wrong, there's nothing I like better than donning a flying suit, leather boots and goggles and going about my favourite hobby, but that's enough about my personal perversion. Perhaps this genre will only be done justice with the advent of an A1200 specific flight sim. Until then, don't bother with this.

Jon Sloan

38%



The outside views come in very useful if you get disorientated and can't see the ground. They're also good if you've got a bogey on your tail and can't figure out where he is.

# GREY-TRONICS

081-686 9973

LTD



LOWEST PRICES

CUT PRICES

BEST SERVICE

## DISKS DISKS DISKS + LOCKABLE BOXES

100% CERTIFIED ERROR FREE

50 3.5" DS/DD	.....£22.99	+ 100 cap lockable box	...£26.99
100 3.5" DS/DD	.....£39.99	+ 100 cap lockable box	...£43.99
200 3.5" DS/DD	.....£74.99	+ 2X 100 " "	.....£81.99
300 3.5" DS/DD	.....£112.99	+ 3X 100 " "	.....£124.99
400 3.5" DS/DD	.....£147.99	+ 4X 100 " "	...£162.99
500 3.5" DS/DD	.....£174.99	+ 5X 100 " "	...£189.99
1000 3.5" DS/DD	...CALL	+ 10X 100 " "	...£367.99

FREE LABELS + FREE DELIVERY BY PARCEL FORCE

## 3.5" LOCKABLE DISK BOXES

40 Capacity	.....£3.99
100 Capacity	.....£4.50

Add £3.10 P&P

## 3.5" HIGH DENSITY DISKS

100% CERTIFIED ERROR FREE - FREE LABELS  
100 DISKS £60 FREE DELIVERY

## STACKABLE BOXES

3.5" 80 Cap Banx Lockable Box	.....£8.99
3.5" 150 Cap Posso Box	.....£16.00
3.5" 100 Cap Addup Lockable Box	.....£10.99

Add £3.10 P&P

## AMIGA 600

FREE 4 Games: Space Ace, Kick Off 2;  
Pipe Mania, Populous  
1 YEAR AT HOME SERVICE

Basic Pack	.....194.99
Wild, Weird, Wicked	.....219.99
Epic Pack 40Mb HD	.....339.99

Extra £15 for 10 Disks, Mousemat, Microswitch  
Joystick, Storage Box, Disk Cleaner

Free Delivery

## AMIGA 1200 HD

HARD DISK VERSION ONE YEAR  
AT HOME SERVICE WITH WANG

80MB Hard Disk	£499.99
120MB Hard Disk	£599.99

32 Microswitch Joystick with every A1200 HD  
ADD £15 FOR 3 GAMES

Free Delivery

## AMIGA 1200

Basic Pack 2Mb Ram

£284.99 INC VAT

Limited Stock Free Delivery

Extra £15 for 10 Disks, Mouse  
Mat, Microswitch Joystick,  
Storgae Box, Disk Cleaner when  
purchased with A1200.

Free Delivery

## BRANDED DISKS

SONY - 3M - JVC - TDK

QUANTITY	DS/DD	HIGH DENSITY
50 3.5"	31.99	53.00
100 3.5"	60.00	102.00
200 3.5"	118.00	200.00
300 3.5"	171.00	299.00
500 3.5"	275.00	485.00

Free Labels Free Delivery

## AMIGA CABLES

Amiga To TV Scart	.....£10.99
Amiga To Sony TV	.....£10.99
Amiga To Amiga	.....£10.99
Joystick Splitters (2)	.....£5.99
Joystick Extension Lead 10ft	.....£5.99
Printer Lead	.....£4.00
Universal Printer Stand	.....£4.99

## DUST COVERS

Amiga 1200/500/500P	.....£4.00
Amiga 600	.....£4.00
Star/Citizen/Panasonic Printers	.....£4.00

## INKJET CARTRIDGES & REFILLS

HP Deskjet Black Ink Cartridges	.....£14.99
HP Deskjet Black Ink Refill	.....£9.99
HP Deskjet Black Dual Capacity Cartridge	.....£21.99
HP Deskjet Black Dual Capacity Refill	.....£14.99
HP Deskjet 500 C Colour Cartridges	.....£25.99
HP Deskjet 500 C Colour Refill	.....£16.99
Cannon BJ 10e/ex Black ink Cartridges	.....£16.99
Cannon BJ 10e/ex Black ink Refill	.....£9.99

Add £2 for Delivery

## PRINTERS

Panasonic 1170 9pin Mono	£135.00
Citizen 120D 9pin Mono	£125.00
Citizen Swift 90 9pin Mono	£165.00
Citizen Swift 90 9pin Colour	£185.00
Panasonic 1123 24pin Mono	£165.00
Panasonic 2123 24pin Colour	£225.00
Citizen Swift 200 24pin Mono	£190.00
Citizen Swift 200 24pin Colour	£215.00

## MONITORS

Commodore 1084 ST	£194.99
Phillips 8833 II + Game	£219.00

FREE LEADS & DELIVERY

## TOP QUALITY RIBBONS

	1off	2+	5+
Panasonic KXP1080/1180/1123/1124	3.45	3.30	2.99
Panasonic 2123/2180 ColOrig	13.95	13.45	12.95
Panasonic 2123/2180 Mono Orig	8.50	8.15	7.75
Citizen 120D/Swift 9/24	2.85	2.70	2.50
Epson LQ400/500/800/850	3.45	3.30	3.10
Epson MX/RX80/FX/LX800	2.90	2.75	2.55
Star LC10/20 Black	2.45	2.25	1.99
Star LC10/200 colour Orig	11.99	11.40	10.99
Star LC200 Black	3.00	2.85	2.65

Add £2 for Delivery

## ACCESSORIES

3,5" Disk head Cleaner	£2.99
Mouse Mat	£2.25
1000 Labels	£10.00
Zappo External Disk Drives	£57.99
Primax Mouse Amiga	£12.50
Universal Printer Stand	£4.99

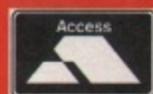
Add £2 for Delivery

ALL PRICES INCLUDE VAT & DELIVERY WITHIN 3 DAYS (UK MAINLAND ONLY).

ADD £8.00 FOR NEXT DAY DELIVERY CALL IN OR SEND CHEQUES/POSTAL ORDERS TO:



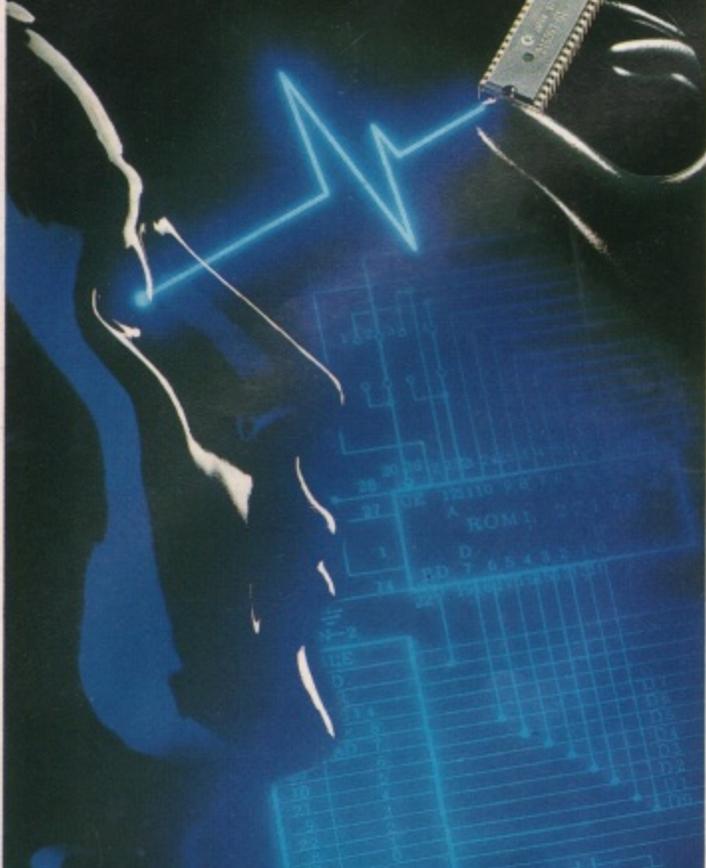
**GREY-TRONICS LTD, UNIT 1015 WHITGIFT CENTRE,  
CROYDON, SURREY CRO 1UU**



SALES HELPLINE: 081 686 9973 Mail order prices only FAX: 081 686 9974

All offers subject to availability. E&OE. Prices/Pack details may change without notice due to currency  
fluctuations. Please allow 6 working days for cheques to clear.

# NEW EQUIPMENT SALES



## QUALITY REPAIRS

ACS Electronics is an established centre for AMIGA equipment. We specialise in the repair, maintenance and supply of computer hardware. Dedicated to a programme of quality customer care, our established position in the industry enables us to offer you, our customer, a service that we believe to be second to none.

# NEW HARDWARE SALES

Amiga A500+	Alone	£191.99	A3000 2MB VID/4MB FAST/52MB	£1149.00
A600 1Mb	20Mb	£239.00	A3000 2MB VID/4MB FAST/120MB	£1299.00
A600 1Mb	40Mb	£339.00	AMIGA 4000/30-/40	£P.O.A
A600 1Mb	85Mb	£384.00	CALL FOR SPECIAL AMIGA PACK PRICES	
A1200 2Mb	Alone	£469.00	COMMODORE CDTV	£349.00
A1200 2Mb	20Mb	£369.00	A600 CONTROL CENTRE	£P.O.A
A1200 2Mb	60Mb	£495.00		
A1200 2Mb	80Mb	£535.00		
A1200 2Mb	120Mb	£589.00		
A3000 1Mb VID/1Mb FAST/52 Mb		£729.00		
A3000 1Mb VID/1Mb FAST/120 Mb		£999.00		
		£1149.00		

MONITORS/PRINTERS/PERIPHERALS/CHIPS!  
CALL FOR BEST PRICES, REVIEWED WEEKLY.  
PRICES INCLUDE V.A.T.  
CARRIAGE FREE TO UK MAINLAND.

# REPAIR SERVICE

**FAST EFFICIENT SERVICE**  
most repairs are carried out within ONE DAY  
**QUOTATIONS RATHER THAN FIXED PRICES**  
fairer to you, and in practice faster to process. Each repair is quoted separately,  
**no fixed charges full of exclusions, or hidden extras.**  
**REPAIRS FROM £23**  
**FREE CARRIER SERVICE with insurance**  
FREE 90 day warranty, FREE soak test.  
**No hidden charges.**  
FREE diagnostic inspection, FREE software.  
**OPTIONAL EXTENDED WARRANTY**  
at competitive rates.  
Experienced and qualified engineering and support staff.  
**5% DISCOUNT**  
available to students and OAP's.  
**UNBELIEVABLE UPGRADE FITTED PRICE OF £15 INCLUSIVE**  
Trade and Education welcome. Dealer pack available on request.

Credit facilities  
available soon for  
hardware purchases  
(subject to status)



**WE HAVE MOVED! TO BIGGER AND MORE ADVANCED PREMISES!**  
ACS DESIGN WORKS, WILLIAM STREET, FELLING, GATESHEAD NE10 0JP  
TEL: (091) 495 0300 (10 Lines) FAX: (091) 4950440

# South Lincs PD

1-9 disks £1  
10-19 disks 85p  
20+ disks 80p } add 75p for P&P per order

Large selection of Amiga PD (Over 2,000 disks) including: Games, graphics and Animation, Utilities, Music, Demos, T-Bag, Fred Fish Disks 1-870, Assassins Games Disks 1-96 Below is a selection of titles available

## GAMES

1011 Return to Earth (P)	1121 Super Skoda Challenge (P)	1184 Act of War* (P)
1030 Antep/Slot Cars* (P)	1126 Survivor V2 (P)	1189 Nu (Difficult shoot em up) (P)
1031 Air Warrior (Sim)(P)	1128 Storyland 2 (P)	1192 Last Refuge* (P)
1040 Bionex (Shoot 'em up)(P)	1129 Doody (Platform)(P)	1193 Intrepid (P)
1043 Popeye (LCD Sim) (P)	1131 Truckin On* (2D) (P)	1194 Formula 1 Challenge V3 (P)
1051 Wooden Ball* (P)	1136 Colour It 1.3 (P)	1195 Deluxe Pacman V1.1a (P)
1054 Balloonacy*(Bomber) (P)	1142 Attack /Copper (P)	1197 MonaV5.4* (Rolepaly) (P)
1055 Crossfire (P)	1147 Alien Network (P)	1200 Tetren (tetris) (P)
1059 Tile Trial* (P)	1149 Mental kimage Games 2* (P)	1201 Top of The League (P)
1065 Yelp (Pacman Type Game)(P)	1151 Othello & Card Sharp (P)	1202 Bomb Jacky (P)
1066 Kingdom at War* (P)	1156 No Mans Land (2 Player War) (P)	1203 Cheat List V2.01
1067 Intact (Shoot 'em Up)(P)	1157 Total War (Risk) (W/B) (P)	1205 Fruit Salad (Platform)(P)
1082 Quik & Silva (Platform)	1163 Battle Cars 2* (P)	1207 Fighting Warrior* (P)
1102 Parachute Joust* (P)	1165 Roulette (P)	1208 Solitaire Sampler (P)
1106 Pete's Quest(W/B) (P)	1166 Texas Chainsaw Massacre(P)	1209 18th Hole* (2D) (P)
1107 Blackjack Lab (W/B)(P)	1167 Amos Cricket (P)	1210 Cash Fruit (P)
1110 Airmania (P)	1168 Hellzone (Shoot em up) (P)	1211 Roton (Asteroid) (P)
1111 Pom Pom Gunner(P)	1175 MR & Mrs* (Platform)(P)	1212 E-Type II
1119 Startrek (2D) (P)	1180 Pipeline V2.0 (P)	
1120 Sealance (P)	1183 Dungeons of Nadroj (P)	

## UTILITIES

4012 Workbench Hacks (W/B) (P)	4119 MED V3.21	4161 Epoch V (P)
4045 Amiga Diagnostics V9.1(P)	4121 Simon Says/Space Maths (P)	4162 Typing Tutors (P)
4084 Cartoon Brushes (P)	4122 Anti-Virus Disk V3.14	4163 Learn & Play Plus (P)
4087 CManual V2.0(4D) (P)	4124 Amibase Pro II V1.2(P)	4164 The Mr Men Pack
4095 DTP Amiga Fox V1.0 (P)	4126 PC Task V1.04Demo (W/B) (P)	4166 A-Gene V4.18 (P)
4096 Icon Mania	4127 Magnetic Pages 1.3(W/B) (P)	4167 BBase II V5.5 (P)
4098 Home Utils (SCalc)(P)	4128 Drivers (Canon/Star9 Pin) (P)	4168 Protracker V2.3a (P)
4100 Text Plus 3(P)	4129 Print Drivers (Over 100) (P)	4169 Calc V1.2 (P)
4102 Messy Sid II (P)	4135 BootX V4.50 & V5.01 (P)	4170 IQ Challenge (W/B)(P)
4108 NorthC V1.3 (2D)(W/B)(P)	4136 Sound Tracker 2.6 (P)	4173 Kick 1.3 (A500 Emulator)(P)
4110 SID V2.00 (P)	4140 Viz Clip Art (P)	4174 A64 Emulator V2.0d (2D) (P)
4112 UEdit V3.0a (P)	4141 Garfield Clip Art (P)	4176 Last Will & Testament (P)
4117 Electric Cad V1.2	4143 D-Copy V2 (DMob) (P)	4177 Ming Shu Chinese Astrology(P)

## GRAPHICS AND ANIMATION

2014 Donald Duck((Anim) (P)	2183 Jet Anim* (P)	2258 Back From The Beech (1.5MB) (P)
2031 Elgato* (Cat Animation)(P)	2193 6 of 1 (Prisoner Slideshow)(P)	2261 The Circus Act* (2D)
2040 Tron*(Light cycle Duel) (P)	2196 Four Stroke Engine* (P)	2262 Mayhem on Wheels 3* (Anim) (P)
2068 Newtek Demo 3(2D) (P)	2198 Sweet Revenge(1.5Mb) (P)	2263 Kick Boxer* (Anim)
2077 Rock Album Slide show (P)	2199 The Art of Tobias Richter (2D)(P)	2268 Invisible World 2 (P)
2083 Life's a Bitch(Anim)(18) (P)	2206 Unsporting (W/B) (2Mb)(P)	2269 kingfisher 1*(Anim) (P)
2086 Porgy Pig* (Anim) (P)	2209 Small Station at Kham* (P)	2270 Kingfisher 2* (Anim) (P)
2110 Juliette 2* (Juggler Anim)(P)	2210 Monty's Animation Demos*(P)	2277 Olympic cyclist* (P)
2112 The Dating Game (3Mb)(2D)(P)	2211 Mars Flight Animation*(P)	2278 2001 A Space Odyssey (1.5Mb)(P)
2150 The Wendy James Slide Show(P)	2213 Planetside * (Anim) (P)	2279 Saving Cart Advert* (Anim) (P)
2158 Aliens Slideshow (18)	2217 Perils of The Deep* (2D)	2281 Speed Limit (1.5Mb) (3D)(P)
2162 At The Movies 2*(4D)(P)	2230 Unpleasant Ways to Die(P)	2283 Two Stroke Engine Animation (P)
2163 Aray V's Walker 2 (2Mb)(W/B)(P)	2231 RDF Shuttle Slideshow	2284 Steam Engine Anim V2* (P)
2164 Girls of Sport Slideshow (P)	2234 Cry for Dawn Slideshow (P)	2286 Fantavision Animations*(P)
2170 Red Dwarf (2D)	2248 Automated Light (3Mb)(4D) (P)	2288 The Ad (3MB) (3D) (P)
2180 Gulf Conflict (2Mb) (W/B)(P)	2256 Maggie 2 Pancake Day (P)	2290 Snow Joke (2MB) (2D) (P)
2181 At The Beech (3Mb)(2D)(P)	2257 Dolphin Dream(P)	2291 GI Spy (3MB) (3D) (P)

## MUSIC

5001 Flash (Queen Hit)(2D) (P)	5073 I'm Too Sexy (RSF) (2D) (P)	5098 Phorever People Remix* (P)
5005 Madonna (Spanky) (P)	5074 Crystal Symphonies (P)	5099 1992 Dance Remix* (Not 1.3) (P)
5006 Bad (Michael Jackson)(P)	5075 Bad Boyz* (Rave)(P)	5102 Nightbreed Music 12 (P)
5017 Pure Metal	5081 Banging Raves 1	5105 Total Kaos (LSD) (2D) (P)
5021 Vangelis*(P)	5082 Banging Raves 2	5109 Get Ready For This*(P)
5045 Iron Maiden(P)	5083 500 Things (P)	5110 Dance Trance (P)
5050 Guns & Roses*(Your Crazy)(P)	5091 The Four Seasons (2D) (P)	5113 Took My Love* (Not 1.3) (P)
5067 The Meaning Of Life* (2D)(P)	5096 Ultimate Dance (P)	5114 1993 Dance Volt* (Not 1.3) (P)
5072 Van Halen (Eruption) (P)	5097 2 Unlimited*(Not 1.3) (P)	5115 500 Things 2

## DEMOS

6059 Indianapolis 500 Demo (P)	6075 Odyssey (5D) (P)	6097 In The Kitchen (P)
6063 Thames TV Demo (P)	6078 Voyage (P)	6098 Sanity World of Commodore (P)
6065 Pink Floyd The Wall* (6D)	6088 Hardwired (2D)	6100 XPose (2D) (P)
6067 Singing Toilets (P)	6090 Cat Computer Club (P)	6101 TimeZone (2D) (P)
6072 Ray of Hope 2	6095 Jesus on Es (2D) (2 Drives) (P)	6102 Wicked Sensation (2D) (P)
6073 Alpha Omega(P)	6096 State of The Art (P)	6103 Alpha & Omega II (3D) (P)

## UNBRANDED 3.5" BLANK DISKS DS/DD

10- £5.00	50 - £22.00	100 - £41.00	200 - £76.00	500 - £175.00
-----------	-------------	--------------	--------------	---------------

ClipArt Pack containing Pdoms Clipit Disks 1 to 5 only £5 inc. P&P. ClipArt Pack containing Clip Art 1-10 (10 disks) only £8.50 inc. P&P. Quickshot II turbo Joystick only £9.90. Logic 3 Mouse (300 DPI) Only £15.50 P&P included  
\* = 1Mb (2D) = 2 Disks 3D = 3 Disks etc. W/B = Workbench needed to run

All blank disks are 100% certified & guaranteed, prices include label, postage/delivery and VAT. Catalogue disk only 60p or send S.A.E. for list of titles. All orders of PD sent same day by first class post. postage & packaging add 75p uk, £2.50 europe (inc. aire). £4.00 rest of the world, payment in sterling please. cheques/postal orders made payable to south lincs PD.

**SOUTH Lincs PD, (CU), 10 LINDEN RISE, BOURNE, Lincs PE10 9TD. TEL: 0778 393470 .**

If this neat chopper sim's been getting your head in a spin, then who better to help you out than the man they call 'Chopper Ace', our own man in the cockpit Tony Dillon.

# GUNSHIP 2000

Remember, at the main screen set your theatre of duty to the European scenario.

Remember, at the main screen set your theatre of duty to the European scenario.

Like all Microprose simulations, *Gunship 2000* is based on promotion and reward. The more medals you carry, the more celebrated a pilot you are.

All mission scores work on a points basis, but the only way to get the highest possible mission scores is to face the ultimate challenge – fly a mission with all options set to their hardest settings. Here's a course of action for those who want to be able to call themselves 'Top Gun' in front of their mates.

To begin with you need to change the Flight option from 'Easy' to 'Realistic'. This gets rid of all self correction. When you push the nose forward, you start to lose height for example, so get ready to make constant minor corrections, as well as having a hand ready to correct the torque for level flight.

Once you are used to realistic flight, you can change the wind and visibility switches. These don't make much difference, unless either is particularly highly restrictive, such as gale force winds or flying at night in fog.

The next thing that you need to turn off is the automatic ground avoidance. You might have noticed when approaching a mountain or similar obstruction that the game automatically increases torque speed to get you over. Not any more, so keep an eye on the altimeter!

Finally, switch on the realistic landings. This really shouldn't make much difference, just as long as you remember to keep the gear down when landing, and do so very slowly, using as little drop as possible.



If you can get used to flying missions with all these set, then you can start to gently increase the enemy skill setting.

Try to fly at least five missions with each setting, to get used to improved tactics, faster response time and generally more enemy per square inch than before.

The ultimate accolade for a pilot is the Congressional Medal Of Honour. The only way to achieve this is to do a campaign mission with everything set at maximum difficulty, destroying loads of targets and returning within a reasonable time for each objective you attain (aim for 30 game minutes per objective completed).

## GENERAL HINTS

When you start playing the game, start in the European scenario rather than the Persian Gulf. There isn't all

When taking on a seek and destroy mission, plot a triangular course like this one on the map screen.

In the early days, stick with the preset squadrons until you feel confident enough to take full control yourself.

that much difference in difficulty on the earlier missions, and the European landscape can teach you far more in the way of using your surroundings for stealth and cover. For example, one excellent route to your

Top: Anyone who couldn't finish a mission on these settings is a wet weed and doesn't deserve to live.

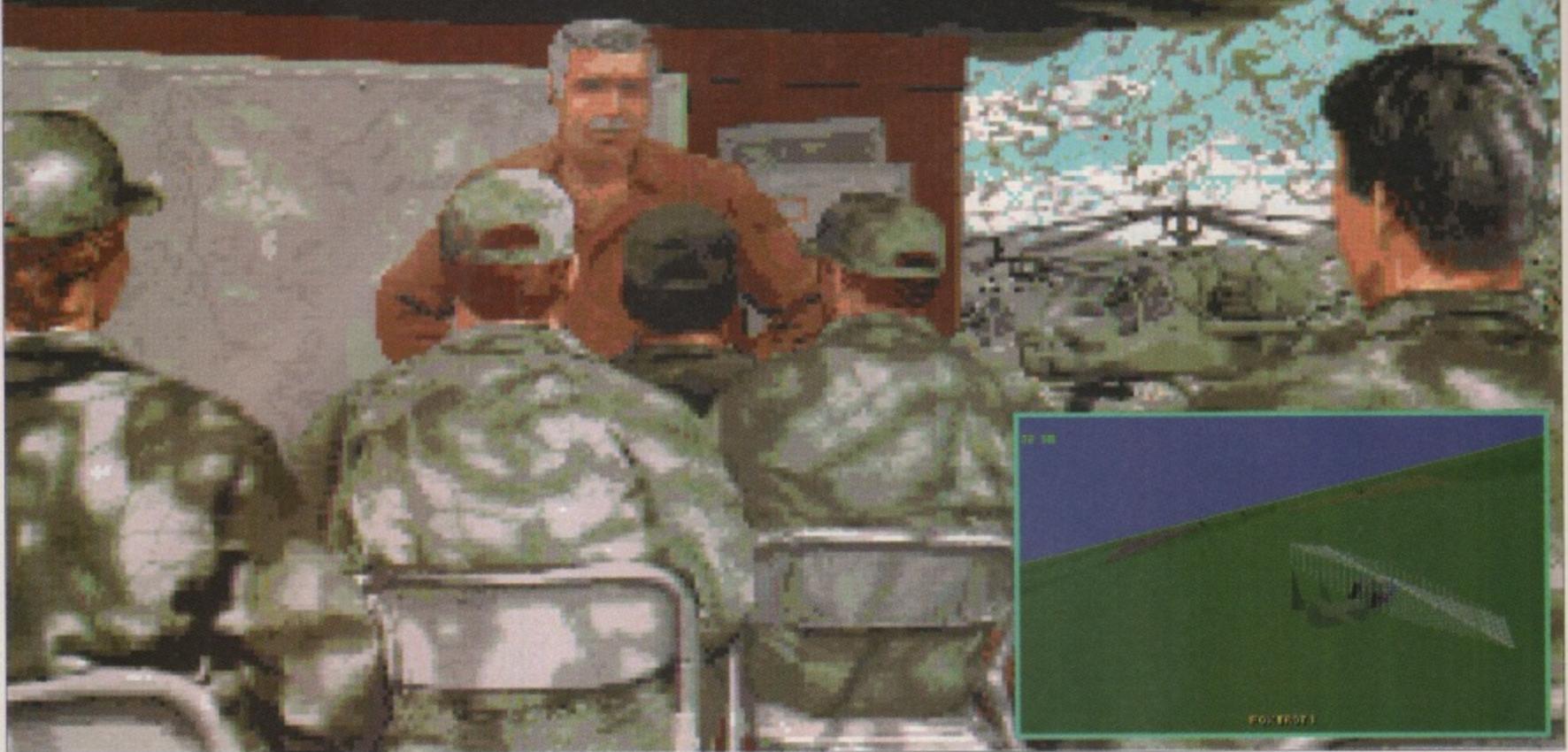
objectives is along the rivers that cross the terrain. If you feel confident enough, try flying along the trench, below ground level. This way, ground-based radar can't 'see' you, and the only way you'll be discovered is if an enemy aircraft spots you visually. Otherwise, use the hill-jumping technique explained in the panel on the next page.

One of the blessings of the game is the co-pilot. Use it to control the counter-measures at all times, as things can get fairly hectic in battle and you don't really want to be fumbling around the keys and racking your brains trying to remember the correct response to a radar guided missile. If you like, you can also get the co-pilot to handle the weapons systems, but I always find that it takes the fun out of combat.

If you are running low on supplies, and the FARP point is too far



Well bless my beautiful hide, it's Howard Keel! Always read your mission orders and be ready to adjust your squadron.



Right: When in doubt as to how to take out a unit, or if the unit is friendly, then switch on the pause mode and all will be revealed!

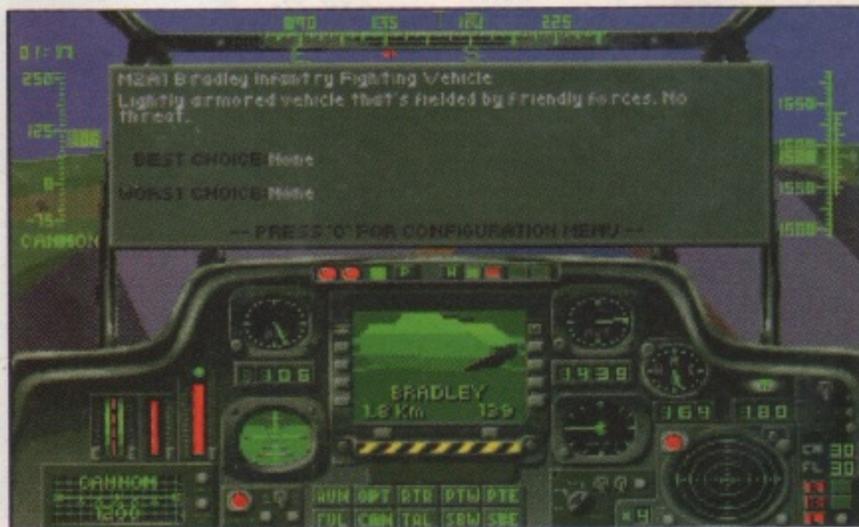
» away, or there isn't one on your mission, head for the base instead. You can refuel and reload there as many times as you wish.

Learn to read the HUD, as well as the dials in the cockpit. If you take some damage, you could lose all the dials, so it helps to be prepared. Should you take too much damage, but have completed at least one objective, then head for the base. It's better to take the points than take your life.

Similarly, if you find you are so damaged that one more shot will cause you to crash, or you just can't muster the power to lift off again, then land and use the end mission (alt - E) keys to abort. You never know, you might get rescued, which is a lot better than dying!

## HILL JUMPING

When you've got a vehicle as stealthy as a helicopter, there's no point charging around like there's no tomorrow. Learning to work with the terrain rather than against it is the secret to a long and prosperous life. Hill jumping is a way of sneaking around without being spotted, leaving you in control of the situation at all times. It works like this: using the small map in the centre of your cockpit, find the first hill or mountain on your route, and fly at a very low altitude towards it, stopping once you reach it. Check your radar to see if there are any enemy units on the other side. If there are, use the pop-up attack to take them out, and then locate the next hill on your way. Now fly around the hill and head towards the next one at a low altitude. Keep repeating this process, and you should have a trouble free ride.



## ATTACKING

Hovering is the only real advantage that helicopters have over jet aircraft, and if you don't make full use of this in combat, then there's no real point using them at all.

In the hilly terrain scenarios, there is one main mode of attack that really works, and no it isn't rushing through the middle of the plains with cannons blasting. If you've ever looked at any manuals for helicopter combat games, you'll have heard of an attack strategy that goes by the name of 'Pop Up'.

Use your radar and the mini-map in the centre of your cockpit to hill jump to the nearest targets. Now hover behind the hill with your targets on the other side. Take a quick breather, and use the shift and equals keys to quickly rise, or 'pop up' over the top of the hill. Lock onto the target you aim to hit, and wait for

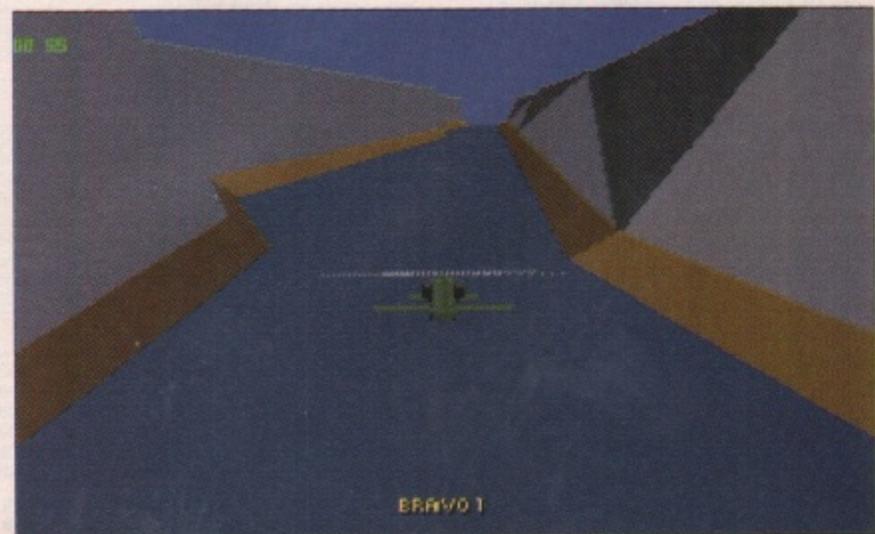
Flying along the river itself lets you get below ground level. What a superb hiding place!

Above: When hopping between hills, keep nice and low. This keeps you off radar and out of visual range.

There is another way to do it, and that's to sneak around the hill rather than over it. For this to work, your target must be very close to the hill. Hover behind the hill as before, and then fly around it at a low altitude with weapons ready. As soon as you target, start firing, and destroy the target before it spots you.

You can mix these two tactics with the more intelligent enemies. For example, hover behind the hill, and then pop up. Drop as before when the enemy fires and now move around the hill. The enemy unit will be loaded and ready, but aiming at the top of the hill. You now have all the time in the world to destroy it before it spots you and starts turning toward you!

That should be enough to get you well under way with *Gunship 2000*. Have fun! **CU**



# SEIKOSHA - QUALITY PRINTERS

Silica Systems are pleased to recommend the high quality range of Seikosha printers. Built to the highest standards by a company that is used to manufacturing quality precision products. Seikosha are part of the massive Seiko/Epson group with a turnover of £6 billion and 18,000 staff! Every dot matrix printer from Silica comes with a free printer starter kit which includes all you need to get up and running with your new Seikosha printer (see below).

FROM ONLY

# £109

EXC VAT

## FREE! FROM SILICA

- DELIVERY** Next day - anywhere in the UK mainland.
- HELPLINE** Technical helpline during office hours.
- AMIGA DRIVER** Seikosha Plus Printer Driver with every SL-95. For extra high quality output. Features include:
  - Definable Dither Routines
  - Prints up to 256 Shades of Grey
  - 16-point Colour Adjustment
  - Enhanced Print Speeds
  - Ink Compensation Correction
  - Full Control of Printer Typefaces
  - Workbench 2/3 GUI
  - Graphics/Paper Size, Margins
- STARTER KIT** With every Seikosha dot matrix printer



FREE! FROM SILICA WORTH £29.38

Every Seikosha dot matrix printer from Silica comes with a FREE Starter Kit, worth £29.38 (£25.00+VAT).

- 3 1/2" Disk with Amiga & ST Printer Drivers
- 1.8 Metre Parallel Printer Cable
- 200 Sheets of Quality Continuous Paper
- 100 Continuous Tractor Feed Address Labels
- 5 Continuous Envelopes on Tractor Feed

## 9-PIN 80 COLUMN 192CPS



ON-SITE WARRANTY 1 YR - ONLY £10.00 - POS 8511

- Seikosha SP-1900 Plus
- 9-Pin Dot Matrix
- 80 Column
- 192cps Draft, 48cps NLQ
- 1K Printer Buffer + 2 Fonts
- Parallel Interface
- Graphics Resolution: 144 x 72dpi
- Epson and IBM Emulation
- Auto Sheet Feeder Option
- Friction Feed and Push Tractor - Auto Paper Load, Paper Parking
- FREE Silica Printer Starter Kit

PRINTER RRP ... £149  
STARTER KIT ... £25  
TOTAL VALUE: £174  
SAVING: £65  
SILICA PRICE: £109

# £109

+ VAT = £128.08 PPI 8105

## 9-PIN 80 COLUMN 300CPS



ON-SITE WARRANTY 1 YR - ONLY £10.00 - POS 8515

- Seikosha SP-2400
- 9-Pin Dot Matrix
- 80 Column
- 300cps SD, 240cps D, 60cps NLQ
- 21K Printer Buffer + 5 Fonts
- Parallel and Serial Interfaces
- Graphics Resolution: 240 x 144dpi
- Epson and IBM Emulation
- Friction Feed and Push Tractor
- Paper Parking Standard
- Optional Auto Sheet Feeder Unit
- FREE Silica Printer Starter Kit

PRINTER RRP ... £185  
STARTER KIT ... £25  
TOTAL VALUE: £210  
SAVING: £71  
SILICA PRICE: £139

# £139

+ VAT = £163.33 PPI 8204

## 24-PIN 80 COLUMN 240CPS



ON-SITE WARRANTY 1 YR - ONLY £10.00 - POS 8515

- Seikosha SL-90
- 24-Pin Dot Matrix
- 80 Column
- 240cps SD, 192cps D, 84cps LQ
- 20K Buffer + 2 Fonts
- Optional Font ROM
- Parallel Interface
- Graphics Resolution: 360 x 360dpi
- Epson LQ850 Emulation
- Built-In Semi-Automatic Cut Sheet Feeder - Paper Parking, Auto Paper Load - Optional Automatic CSF
- FREE Silica Printer Starter Kit

PRINTER RRP ... £199  
STARTER KIT ... £25  
TOTAL VALUE: £224  
SAVING: £65  
SILICA PRICE: £159

# £159

+ VAT = £186.83 PPI 8200

## 24-PIN COLOUR DOT MATRIX



ON-SITE WARRANTY 1 YR - ONLY £10.00 - POS 8515

- Seikosha SL-95 - 24 pin - Dot Matrix
- 240cps SDraft, 192cps Draft, 64cps LQ
- 43K Printer Buffer + 9 Fonts
- Parallel Interface
- Graphics Resolution: 360 x 360 dpi
- Epson LQ860/850/2500/2550 Emulation
- Colour Printing as Standard (Includes Colour Ribbon - Black Ribbon Optional Extra)
- Semi Auto Single Sheet Feeder
- Optional Auto Cut Sheet Feeder
- FREE Silica Printer Starter Kit

240 CPS

80 COLUMN

PRINTER RRP ... £249  
STARTER KIT ... £25  
TOTAL VALUE: £274  
SAVING: £85  
SILICA PRICE: £189

# £189

+ VAT = £222.08 PPI 8300

## FAST 128 NOZZLE INKJET



ON-SITE WARRANTY 1 YR - £41.13 - POS 8522

- SpeedJET 300 - Inkjet Printer
- High Capacity 128 Nozzle Inkjet Head
- Large Ink Tank - up to 4.2 Million Characters
- 300 CPS Draft (10cpi) - 300 CPS LQ (10cpi)
- 16K Printer Buffer - 3 Built-in Fonts
- 2 IC Card Slots for Buffer Expansion + Fonts
- Parallel I/F - Graphics Res. 300 x 300dpi
- HP Deskjet Emulation (PCL3)
- Built-in Auto Sheet Feeder (100 Sheets)
- Economical to Run - only 1.3p per page
- Ultra Quiet - 46dB(A) Maximum

300 CPS

LETTER QUALITY

80 COLUMN

PRINTER RRP ... £359  
TOTAL VALUE: £359  
SAVING: £60  
SILICA PRICE: £299

# £299

+ VAT = £351.33 PPI 8200

## 4PPM LASER



INCLUDES 1 YEAR ON-SITE WARRANTY

- OP-104 - 4 Pages per minute
- HP LaserJet IIP™ Emulation
- Resolution: 300x300dpi - 14 Resident Fonts
- Uses Original HP® Font Cards
- Postscript Emulation Option (Extra)
- Optional IBM, Epson & Diablo Emulation Cartridges
- Centronics Parallel & RS232C/RS422 Serial Interfaces
- 512K RAM - expandable to 2.5Mb
- Flexible paper handling: Standard paper cassette - 100 sheets, Optional 2nd bin - 300 sheets
- Quiet Operation 46dB(A)
- Compact Design with Straight Paper Path
- Cable required: CAB 7500 for PC - £9.95 or CAB 7614 for ST/Amiga - £12.95

4 PPM

300 DPI

POSTSCRIPT VERSION £899.00 (exc VAT) £1058.33

PRINTER RRP ... £899  
TOTAL VALUE: £899  
SAVING: £400  
SILICA PRICE: £499

# £499

+ VAT = £586.33 LAS 8304

## SILICA SYSTEMS OFFER YOU

- FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
- TECHNICAL SUPPORT HELPLINE:** Team of technical experts at your service.
- PRICE MATCH:** We normally match competitors on a "Same product - Same price" basis.
- ESTABLISHED 14 YEARS:** Proven track record in professional computer sales.
- £12 MILLION TURNOVER (with 60 staff):** Solid, reliable and profitable.
- BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts available 081-308 0888.
- SHOWROOMS:** Demonstration and training facilities at all our stores.
- THE FULL STOCK RANGE:** All of your requirements from one supplier.
- FREE CATALOGUES:** Will be mailed to you with offers + software and peripheral details.
- PAYMENT:** Major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).

Before you decide when to buy your new printer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals and accessories, or help and advice. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

MAIL ORDER HOTLINE  
**081-309 1111**

**SILICA SYSTEMS**

<b>MAIL ORDER:</b> Order Lines Open: Mon-Sat 9.00am-6.00pm No Late Night Opening	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX	Tel: 081-309 1111 Fax No: 081-308 0608
<b>LONDON SHOP:</b> Opening Hours: Mon-Sat 9.30am-6.00pm No Late Night Opening	52 Tottenham Court Road, London, W1P 0BA	Tel: 071-580 4000 Fax No: 071-323 4737
<b>LONDON SHOP:</b> Opening Hours: Mon-Sat 9.30am-7.00pm Late Night: Thursday - 8pm	Selfridges (Basement Area), Oxford Street, London, W1A 1AB	Tel: 071-629 1234 Extension: 3914
<b>SIDCUP SHOP:</b> Opening Hours: Mon-Sat 9.00am-5.30pm	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX	Tel: 081-302 8811 Fax No: 081-309 0017
<b>ESSEX SHOP:</b> Opening Hours: Mon-Fri 10.00am-5.30pm (Sat 9.00am-6.00pm)	Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA	Tel: 0702 468039 Fax No: 0702 468039

To: Silica Systems, CMUSR-0993-84, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

**PLEASE SEND A BROCHURE ON THE SEIKOSHA RANGE**

Mr/Mrs/Ms: ..... Initials: ..... Surname: ..... Date: .....

Company Name (if applicable): .....

Address: .....

Postcode: .....

Tel (Home): ..... Tel (Work): .....

Which computer(s), if any, do you own? .....

# Premier Mail Order

Please send cheque/PO's (made out to Premier Mail Order), or advise Visa/Mastercard number and expiry date to:

Dept CU 08, 10 Tinkler Side, Basildon, Essex SS14 1LE Tel: 0268 271172 Fax: 0268 271173

Telephone Orders: Mon-Fri 9am-7pm and Sat & Sun 10am-4pm We Are Open 364 Days a Year

P&P and VAT is included for all UK orders. Please add £2 P&P for Europe and £3.50 for Rest of The World  
Next day delivery service available £4.

1869	20.99	Harpoon Scenario Editor	13.99	Sleep Walker	21.99
3D Construction Kit 2	32.99	History Line 1914-18	22.99	Sleep Walker (A1200)	21.99
A320 AirBus (USA)	22.99	Humans	19.99	Slicks*	12.99
A320 Approach Trainer*	22.99	Human Race - The Jurassic Levels	19.99	Smash TV	6.99
Abandoned Places 2	22.99	IK+	6.99	Soccer Stars Compilation	16.99
Addams Family	16.99	Indy Jones - Atlantis Adv (1 Meg)	24.99	Soccer Kid*	17.99
Airbus A320 (EUROPE)	22.99	Int 3D Tennis	5.99	Space Legends	16.99
Alien 3	19.99	International Open Golf Championship	17.99	Special Forces	17.99
Alien Breed 2*	19.99	International Rugby Challenge	7.99	Strategy Masters Compilation	17.99
Alien Breed Special Edition	10.99	Jack Nicklaus Golf	7.99	Starush*	16.99
Altered Beast	6.99	Jack Nicklaus Extra Courses	10.99	Street Fighter 2	19.99
Ambermoon*	20.99	Jaguar XJ220 (1 Meg)	16.99	Striker (1 Meg)	16.99
Amos The Creator	29.99	Jimmy Whites Snooker	See the Greatest	Strip Poker 2 + Data Disk	6.99
Amos 3D	24.99	John Madden	16.99	Super Barbarian*	16.99
Amos Compiler	19.99	KGB*	20.99	SuperCars	6.99
Amos Professional	44.99	Keys of Maramon*	16.99	SuperCars 2	8.99
Ancient Art of War in the Skies	22.99	Knightmare	11.99	Super Cauldron	16.99
Animation Classics	27.99	Knights of the Sky (1 Meg)	22.99	Super Fighters	17.99
Another World	19.99	Lethal Weapon	16.99	Super Frog	17.99
Apocalypse	17.99	Legend	12.99	Super Hang On	6.99
Aquatic Games	16.99	Legends of Valour	24.99	Super Hero*	19.99
Arabian Nights	17.99	Legend of Kyrandia	23.99	Super Tetris	16.99
Archer Maclean's Pool	16.99	Lemmings 2 (The Tribes)	17.99	Switchblade	6.99
Arsenal FC*	16.99	Lemmings Double Pack	19.99	Switchblade 2	8.99
Ashes of		LionHeart	18.99	Sword of Sodan	8.99
Assassin	16.99	Lombard Rally	6.99	Syndicate*	
A - Train	22.99	Lure of the Temptress	See The Greatest	Team Yankee 2 (1 Meg)	19.99
A Train Construction Set	12.99	Macdonalds Land*	17.99	Terminator 2	(see Dream Team)
ATAC	22.99	Maelstrom*	22.99	The Adventurers	21.99
AV8B Harrier Assault	22.99	Man Utd. Europe	16.99	The Greatest	21.99
B17 Flying Fortress (1 Meg)	22.99	Mega Traveller 1 (1 Meg)	19.99	The Manager	19.99
Batman the Movie	6.99	Mega Traveller 2 (1 Meg)	19.99	Their Finest Hour (1 Meg)	19.99
Bat 2 (1 Meg)	26.99	Messengers of Doom	19.99	Tom Landry Strategy Football	27.99
Battletoads	19.99	Micro Machines*	12.99	Tornado*	22.99
B.C. Kid	16.99	Microprose Soccer	6.99	Toyota Celica GT Rally	5.99
Beavers	17.99	Midnight Resistance	6.99	Transactica	17.99
Birds of Prey (1 Meg)	22.99	Moonstone (1 Meg)	19.99	Troddlers	16.99
Blues Brothers	8.99	Monopoly	18.99	Trolls (A1200)	16.99
Body Blows	18.99	Narco Police	5.99	Trolls	16.99
Caesar	19.99	New Zealand Story	6.99	Turbo Challenge	8.99
Campaign	22.99	Nick Faldo's Golf	22.99	Turbo Challenge 3	16.99
Campaign 2*	22.99	Nigel Mansell World Champ	19.99	Turbo Outrun	6.99
Campaign Mission Disks	11.99	Nigel Mansell World Champ (A1200)	19.99	Twilight 2000*	20.00
Captive 2*	20.99	No Second Prize	17.99	U96*	22.99
Championship Manager 93	16.99	Operation Thunderbolt	6.99	Universal Monsters*	17.99
Chaos Engine	16.99	Operation Wolf	6.99	Utopia + Data Disk	19.99
Chuck Rock 2	16.99	Operation Stealth*	11.99	Valhalla	19.99
Civilisation (1 Meg)	22.99	Overdrive*	16.99	Walker	20.99
Cohort 2	19.99	Pang	6.99	War in the Gulf	19.99
Combat Air Patrol	19.99*	Perfect General	22.99	Waxworks	22.99
Cool World	17.99	Perfect General Data Disk	14.99	WWF 2	8.99
Conan The Cimmerian*	19.99	PGA Golf Courses	9.99	WWF	8.99
Covert Action (1 Meg)	22.99	PGA Tour Golf+	19.99	Wing Commander (1 Meg)	14.99
Crazy Cars 3	16.99	Pinball Fantasies	19.99	Wizball	6.99
Creepers	19.99	Pinball Dreams	16.99	Wizkid	16.99
Curse of Enchatria	22.99	Pinball Magic	6.99	Zool A1200	16.99
Cyberspace*	22.99	Pools of Darkness (1 Meg)	21.99	Zool 2*	17.99
D Day*	22.99	Populous 2+	22.99		
Daley Thompson Challenge	6.99	Populous Challenge Disk	10.99		
Darkmere*	20.99	Powermanger	19.99		
Dark Seed	20.99	Powermanger Data Disk 1	9.99		
Dark Sun: Shattered Lands*	21.99	Premiere Manager 2*	17.99		
Deluxe Paint 4 AGA	64.99	Prehistoric 2*	16.99		
Desert Strike	19.99	Premier Manager	17.99		
Dragon's Lair 3	22.99	Prime Mover	19.99		
Dreadnought	22.99	Prince Of Persia	6.99		
Dune	See The Greatest	Prophecy	19.99		
Dune 2	20.99	Pro Tennis Tour 2	16.99		
Dungeon Master Chaos	19.99	R-Type*	6.99		
Dynablaster	19.99	Ragnarok*	22.99		
Easy Amos	29.99	Railroad Tycoon (1 Meg)	22.99		
Elvira 2 (1 Meg)	24.99	Rainbow Islands	6.99		
Elite 2 (Frontier)*	22.99	Rampart	16.99		
Eye of the Beholder (1 Meg)	19.99	RBI 2 Baseball	6.99		
Eye Of The Beholder 2 (1 Meg)	21.99	Reach for the Skies	22.99		
Eye of the Storm*	19.99	Realms (1 Meg)	19.99		
Foxus 3010*	19.99	Risky Woods	16.99		
F15 Strike Eagle 2 (1 Meg)	(see Combat Classic)	Road Rash	19.99		
F16 Combat Pilot	8.99	Robocod	(see Raving Mad)		
F19 Stealth Fighter	19.99	Robocap	8.99		
Falcon 3*	24.99	Robocap 3	16.99		
Fast Food Dizzy	6.99	Robo Sport	19.99		
Final Fight	8.99	Rome AD 92	16.99		
Fire Force	16.99	Sabre Team	19.99		
Fire Hawk	14.99	Scrabble	20.99		
Fire and Ice	16.99	Sea Air Rescue*	22.99		
First Samurai + Mega-Lo-Mania	19.99	Secret of Monkey Island (1 Meg)	16.99		
Flash Back	26.99	Secret of Monkey Island 2	24.99		
Flight of the Intruder	10.99	Sensible Soccer 1.1 (92/93)	16.99		
Footballer of the Year 2	25.99	Shadow Lands	19.99		
Formula 1 Champions*	17.99	Shadow of Beast 3	19.99		
Formula One Grand Prix	22.99	Shadow Warriors	6.99		
Global Gladiators	20.99	Shadow Worlds	17.99		
Gobliins 2	19.99	Shoot Em Up Con Kit	8.99		
Graham Gooch World Class Cricket	19.99	Shuttle	19.99		
Graham Taylor	16.99	Silent Service 2 (1 Meg)	22.99		
Grusome*	16.99	Silkworm	8.99		
Gunship 2000* (1 Meg)	22.99	Silly Putty	16.99		
Guy Spy	19.99	Sim City Deluxe	22.99		
Harrier Jump Jet*	22.99	Sim City+Populous	19.99		
Harpoon + Battleset 2	22.99	Sim Earth	22.99		
Harpoon Battleset 3	9.99	Simpsons	(see Dream Team)		
Harpoon Battleset 4	9.99	Syndicate*	22.99		

## SPECIAL OFFERS

Chuck Rock	10.99
Dizzy Panic	6.96
Harlequin	9.99
Kick Off 2 1 Meg	9.99
Kick Off 2 Final Whistle	7.99
Kick Off 2 Giants Of Europe	7.99
Kick Off 2 Return To Europe	7.99
Kick Off 2 Winning Tactics	5.99
Microprose Golf	14.99
Paperboy 2	9.99
Seymour Goes To Hollywood	6.99
The Kristal	9.99
Thunderstrike	5.99
Turbo Challenge 2	9.99
Turtles 2	9.99
Wing Commander	14.99
Zool	13.99

## EDUCATIONAL

ADI English (All Ages)	17.99
ADI French (All Ages)	17.99
ADI Maths (All Ages)	17.99
Alvins puzzles	12.99
Better Spelling (8-10)	13.99
Better Maths (12-16)	13.99
Cave Maze (8-12)	9.99
Compendium 6	26.99
Fun School 2 (6-8)	6.99
Fun School 2 (+8)	6.99
Fun School 2 (U6)	6.99
Fun School 3 (5-7)	16.99
Fun School 3 (U7)	16.99
Fun School 3 (U5)	16.99
Fun School 4 (5-7)	16.99
Fun School 4 (7-11)	16.99
Fun School 4 (U5)	16.99
Fun School Paint + Create (over 5+)	17.99
Fun School Spelling Fair (7-13)	17.99
Fraction Gobblins (8-13)	9.99
Junior Typist (5-10)	10.99
Magic Maths (4-5)	13.99
Maths Mania (8-12)	13.99
Maths Dragons (6-13)	9.99
Merlin Maths (7-11)	17.99
Mickey's 123's (2-5)	16.99
Mickey's ABC's (2-5)	16.99
Mickey's Jigsaw Puzzles (5+)	16.99
Mickey's Colours & Shapes (2-5)	16.99
Mickey's Memory Challenge (5+)	16.99
Noddy's Play Time (3+)	16.99
Paint pot 2	12.99
Picture Fractions (7-10)	9.99
Playschool (3-8)	9.99
Playroom (3-8)	17.99
Prof plays a new game	16.99
Prof looks at words	16.99
Prof makes sentences	16.99
Prof hunts for words	ss16.99
Reasoning With Trolls (5-12)	9.99
Shopping baskets	12.99
Tidy The House (6-10)	9.99
Which, Where & What	12.99

## JUNIOR ADVENTURE

The Wind in The Willows	13.99
The Three Bears (5-10)	13.99

## JOYSTICK & ACCESSORIES

Quickjoy Topstar	17.99
Quickjoy Turbo	10.99
Quickjoy Jettfighter	11.99
Cheetah 125+	7.99
Competition Pro Extra	14.99
Competition Pro 5000	13.99
1/2 Meg Upgrade	24.99
1/2 Meg Upgrade + Clock	26.99

## TDK / VERBATIM

10 x 3.5"	7.99
20 x 3.5"	14.50
50 x 3.5"	35.00
100 x 3.5"	65.00

## PRECISION - BOXED

10 x 3.5"	6.49
20 x 3.5"	11.99
50 x 3.5"	26.00

## UNBRANDED - LOOSE

10 x 3.5"	5.99
20 x 3.5"	10.99
50 x 3.5"	23.99
100 x 3.5"	44.99

## RECYCLED - LOOSE

10 X 3.5	4.50
20 X 3.5	8.50
30 X 3.5	12.00
40 X 3.5	15.00
50 X 3.5	17.50
100 X 3.5	35.00

<b>AWARD WINNERS</b> Populous, Kick Off 2, Space Ace, Pipemania £19.99	<b>SPACE LEGENDS</b> Wing Commander, Elite, Mega traveller 1 £19.99
<b>SPORTS MASTER</b> European Championship 1992, PGA Tour Golf, Advantage Tennis, Indy 500 £19.99	<b>BOARD GENIUS</b> Cluedo, Scrabble, Deluxe Monopoly, Risk £19.99
<b>COMBAT CLASSICS</b> F15 Strike Eagle 2, Team Yankee, 688 Attack Sub £19.99	<b>2 HOT 2 HANDLE</b> Goldern Axe, Super Off Road Racer, Total Recall, Shadow Warriors £19.99
<b>DREAM TEAM</b> WWF Wrestlemania, Simpsons, Terminator 2 £17.99	<b>DIZZY COLLECTION</b> Fast Food, Kwix Snax, Fantasy World Dizzy, Treasure Is Dizzy, MagiLand Dizzy £16.99
<b>STRATEGY MASTERS</b> Battlemaster, Populous, Hunter, Spirit of Excalibur, Chess Player 2150 £17.99	<b>DIZZY'S EXCELLENT ADV</b> Dizzy Panic, Bubble Dizzy, Dizzy-Prince of York Folk, Spellbound Diz, Kwix Snax £16.99
<b>FANTASTIC WORLDS</b> Mega Lo Mania, Pirates, Populous, Realms, Wonderland £22.99	<b>SOCCER STARS</b> World Champ Soccer, Kick Off 2, Microprose Soccer £16.99
<b>FOOTBALL CRAZY</b> Kick Off 2 1/2 Meg, Player Manager, K02 Final Whistle £9.99	<b>BIG BOX 2</b> Back to Future 2, The Real Ghostbusters, R Type, Smbad, Agnavle Defenders of Earth, Shanghai, Bompu, IV Sports, Football, IK £19.99
<b>THE GREATEST</b> Jimmy White's Snooker, Lure of The Temptress, Dune £21.99	<b>ANIMATION CLASSICS</b> Space Ace, Dragon's Lair 2, Wrath of The Demon £27.99

# THE TROLLS HEAD

## SHRINE OF KNOWLEDGE

A chill wind gusts from the North, whipping the clouds across the dark night sky. The cold fingers of the storm tear at the shutters of the Troll's Head Inn. Never fear, if you have made it this far you're safe.

## HEROES WANTED BOARD!

### LANDS OF LORE - THE THRONE OF CHAOS

Have you ever gone to bed with a beautiful young maiden, only to wake in the morning next to a hideously ugly crone? In that case you may have already met Scotia, agent of the Dark Army, who is naturally nauseating, but capable of changing her shape. On the other hand you may just have gone home with the Troll's Head barmaid! You may be wondering why Westwood Studios, who wrote *Eye of the Beholder III* to another company (who incidentally appear to have made a troll's ear out of the job!). The reason was that they were busy creating *The Throne of Chaos* for an early winter release from Virgin Games. The game has 30 unique areas to explore including creepy castles, dungeons, ancient ruins and The White Tower. Heroes signing up for this campaign are promised an even smoother combat system, 50 different intelligent monsters, plus stunning graphics. The Management strongly recommend that you get your name down early for this tour of duty as there is sure to be a rush of late bookings.

### RULES OF THE INN

• Tickets for the Wizard's Ball are now on sale behind the bar - price 1 Zorkmid each.

Attention: Please note this is a Raffle not a Dance!

• Arm wrestling is not allowed. Especially if you're using someone else's arm.

By Order of The Innkeeper.

### ZAK MCKRACKEN

It's not often that you'll come across a two-headed squirrel, but if you do you'll be glad that Frazer Young of Redditch took the trouble to ask what the normal procedure is for dealing with such an animal. Frazer and Zak McCracken have got inside the cave in Seattle but are now at a loss.

**The Shrine replies:** If you are inside the cave you have obviously already worked out that you deal with Siamese squirrels by giving them packets of peanuts which you find on the aeroplane. What you really need to know is that you should pick up the tree branch outside then enter the dark cave. Use the 'What is' pointer to move around the top half of the screen until you find a bird's nest. Knock the nest

down with the branch. Use the pointer to locate the pit in the floor, then place the nest in it. A quick flip of the lighter (which you should have found under a cushion on the plane) and you'll have a cheery fire going.

Following up a story of a two-headed squirrel, our reporter is about to embark on a story more fantastic than anything the National Enquirer ever made up.



Draw near and ask your question. Don't be embarrassed, even the most noble adventurer is sometimes stuck for a clue. Behind the velvet curtain is the Shrine of all Knowledge where the deepest secrets are revealed and hearts are laid bare.

### ZORK 1

In Australia men are men, and kangaroos are nervous. Kerry Zwar is from South Australia and his letter indicates that the age of the 'New Man' hasn't quite caught on down-under. So far he's amassed 240 points in *Zork* by killing the thief, mapping the maze and the coal mine, sailing the river and draining the lake. He sounds like a blooming, ecological disaster. No doubt he's also skinned a couple of 'gators and chundered under the bridge, but he didn't think that worthy of comment. Not content, he now wants to know how the hell to get into Hades, and what in hell he needs to do to get past the bat in the mine?

**The Shrine replies:** Most people would wish to avoid going to Hades, but I don't suppose it will seem so bad for someone who's been brought up in the outback. The trick you must learn is how to exorcise demons. As all priests will tell you this must be done with a bell, book and candle. Those items can be found on the altar which is two floors above the gates to Hell. When you ring the bell it will become hot and you will drop it. You will also drop the candles. At this point, in one command, you must: 'Get the candles, light match, light candles with match'. If you now read the book the demons will get zapped. The bat you speak of is a vampire bat. And what do vampires avoid like the plague? French cooking of course! If you don't have a bowl of frog's legs in your tucker bag, I suggest you use a clove of garlic which is the next best thing. You'll find this magical, culinary ingredient inside a bag, which is to be found in the kitchen of the house near Canyon View.

### INDIANA JONES AND THE LAST CRUSADE

James O'Brien of West Glamorgan has written to say that he believes the Troll's Head is the greatest source of knowledge in the known world, but of course we all know that so let's just get on with his problem. It would appear that James cannot play the musical skulls in the *Indy* adventure. No matter in what sequence our tuneless friend raps his bony

xylophone it scores a fat zero on the musical scoreboard.

**The Shrine replies:** The answer is to be found in the Grail Diary my son. Consider the row of six skulls to be numbered, from the left, 1 - 6. In that case you must push the skulls as follows: 53342. It's a lousy tune, but it's sure to be a hit.

### CURSE OF ENCHANTIA



Once you cross the sea-bed in the *Curse of Enchantia*, you'll emerge here in this secret cave. However, crossing the sea-bed has difficulties which just might have you seeking help from the Mystic Shrine.

Fathers are supposed to know everything, but Stuart Ruben's father is a bit of a washout. Having got his son into the *Curse of Enchantia*, he has callously left him to the tender mercies of electric eels on the seabed. Shocking I call it. To be fair he did help him find the worm in the sand before he abandoned him to his fate, but that hardly excuses him. The pair know that they should give the worm to the big fish for more oxygen, but that is where their partnership foundered on the rocks.

**The Shrine replies:** I assume you know that this is 'Cherish a Fish Week'? Otherwise known as, 'Be kind to a Cod and Ditch your Rod!' If you were a good-hearted type you'd have released the little fish which you saw trapped behind the railings on the first screen. Next find the coin behind the big rock, then go left and look at the hole in the sand. Pick up what you find there and give it to the Mr. Fish who will repay you with Oxygen. It's now that your Good Samaritan work will be rewarded because the little fish will reappear and drop something which you can pick up. Give this object to a passing turtle and he'll oblige you by giving you a lift over the eels.

### MONKEY ISLAND II

I have received a goodly number of letters from poor benighted souls who cannot find one or other of the items needed to give to the Voodoo woman to enable her to deal with Largo. For all of you, I'll stick a gold coin of my own money into the Shrine's slot and let it give you a quick hint.

**The Shrine replies:** Largo's hair comes from the toupee in his cabin. Of course you'll have to release the alligator first to create a diversion. The thread is from his clothes which he'll put in the laundry if you balance a bucket of mud above his

>>



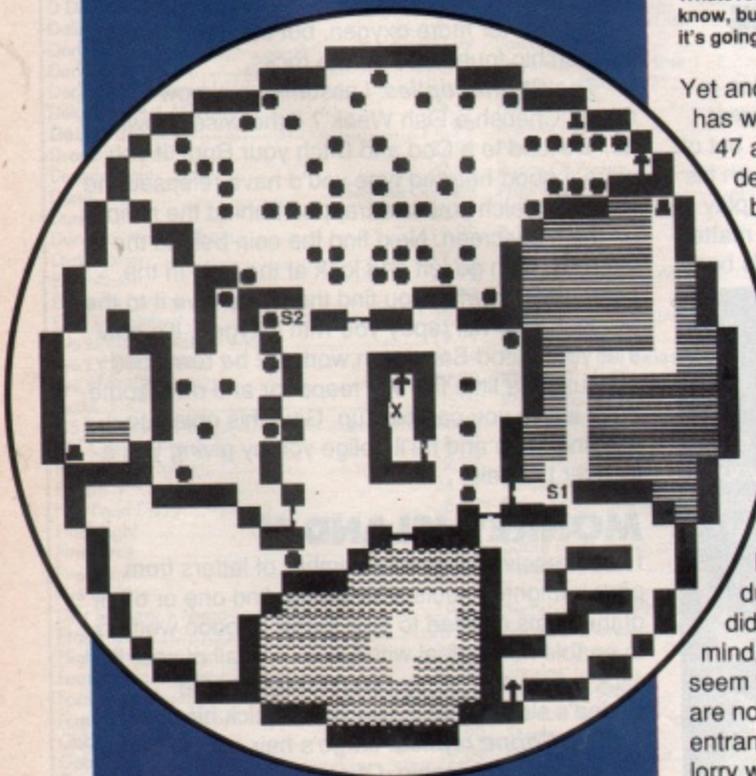
Take a special note of the sign which hangs at the end of the bridge in *Monkey Island II*. The spade which you can see is detachable, and if you intend looking up old friends in the graveyard you're going to need it.

### ABANDONED PLACES 2

You would think that anyone who had managed to complete *Dungeon Master*, *Chaos*, *Eye of the Beholder 1 and 2*, *Black Crypt* and the *Bard's Tale 1 and 2* wouldn't need to seek help from the Mystic Shrine, but not a bit of it. Robbie Priestly from Co. Wicklow in Ireland has come a cropper in *Abandoned Places 2*.

On the first level of the Tower there are a number of pillars which block all routes, and despite repeated head butts from our bold adventurer they won't move. Apart from some annoying quirks, this game does have some good features, but it can be a swine at times. What do you think of it? The reviewers all had different views, but I'd be interested to hear what you think.

**The Shrine replies:** If you consult the map on this page, I'll explain what you must do. If you consider the top left of the map as grid co-ord (0,0) then go to position (23,20). That's 23 squares East and 20 South. Face South and locate the hidden switch in front of you. This removes the pillar at (10,12) and allows you to access S2. This will open the door at (14,12) allowing you to get to the North Room.



Trouble with pillars? *Abandoned Places 2*, Level 1 of the Tower can be a tricky place to negotiate until you find the secret switch.

» cabin door. The laundry ticket will be found behind the cabin door. The liquid is his spit which you'll collect from the wall of the bar using a piece of paper from Wally's room. (Euck!) The grandfather's bone comes from the cemetery, but you'll need the spade which is fixed to the sign on the bridge to dig it up.

### INDIANA JONES AND THE FATE OF ATLANTIS



Whatever did happen to the lost city of Atlantis? You may not know, but Indiana Jones is on the case so you can be sure that it's going to be fun and adventure all the way.

Yet another golden-oldie, called Colin Hayward, has written to own up to the fact that he is both 47 and a graphic adventure nut. Colin has decided to solve his disk-swapping problem by upgrading to an A1200 with a 60Mb hard drive, but he requires the help of the Shrine to solve his confusion with the latest Indy epic. Having got to Atlantis, made 30 beads in the machine, rescued Sophia from jail, he now can't get past the octopus.

**The Shrine replies:** Instead of all the aggravation you should take up a relaxing hobby like fishing. Even more relaxing, take up crab fishing. Of course you're going to need a crab pot and some bait to put in it. Did you pick up some food during your sea voyage on the submarine, or did you eat it and ruin your diet again? Never mind, you can always beat up a guard for they all seem to have some food on them. I'm afraid there are no crab pots around, but if you search that entrance maze again you'll find an abandoned lorry with a skeleton inside. I'm sure an experienced adventurer like yourself won't mind ripping out the poor soul's rib cage and using that as a pot. (I think I'm going to be sick...)

### LURE OF THE TEMPTRESS

At last the letters I am receiving concerning *Lure* centre around the final puzzle – 'How do you lower the drawbridge?'. Gemma Cullis of Luton has used the fat on the lever, but can't do anything with the winch.

**The Shrine replies:** There are times in one's life when me must get a little help from our friends. Surely there is someone you can ask to operate the winch while you concentrate on the lever. C'mon, you must have at least one friend. Even Tony Gill has one friend – well more of an acquaintance actually.

### BANE OF THE COSMIC FORGE

Battle-weary but unbowed, Mark Mcleod (of apparently nowhere in particular), has arrived before a drawbridge in *Wizardry 6*. The complicated instructions on the control panel seem to be too much for our hardy friend (all muscle, no brain I suspect). 'Please,' he begs, 'which buttons should I press?' Not content with one question he also wants to know, 'What does the green parrot do?'

**The Shrine replies:** I would have thought it obvious what the green parrot does. It makes a mess on the floor and eats crackers! Isn't that what they all do? Again I will take the opportunity to clear up a few *Wizardry* queries, so put your ear to the grille and listen closely. You need Mystery Oil to open the drawbridge panel. The order of the buttons is found in a dictionary, however if you are desperate this is the sequence: Safety, Pump, Coilwrap, Truss, Safety and Winder. The treasure is buried on Giant Mountain. The password is Skeleton Crew. The green parrot bestows Armour Magic. Use rotten cheese on the hole in the wall. Give beagle to man in the tower. Merge the steel hook with the rope from the belfry to cross the chasm. The Book of Ramm contains the code for the altar. You'll find this behind the second gate (use the gold key) on level -2. Use the JR Decoder ring on the Deadman's log to read it. Use the Wizard's Ring to open the Wizard's Chamber.

As the magical glow from the Shrine fades and dies, these final words of advice are heard faintly, 'It's not the size of your weapon that counts. It's where you stick it.'



If you are still stuck in the early stages of this great game then the Shrine has quite a few useful tips for you this month.

**If you have a problem, a notice for the Board, or perhaps you have a piece of scandal which you wish to whisper in the Inn, write to Tony Gill at: The Troll's Head Inn, CU Amiga, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.**

# DIAL - A - TIP

The Original and Best For:  
Hints n' Tips n' Cheats n' Pokes

## THE AMIGA GAMES LINE

DIAL 0891 445 786

CHEATS GALORE (say yes for Amiga) 0891 101 234  
ALL CHEATLINES UPDATED EVERY WEEK

### INTERACTIVE GAMES SOLUTIONS

STREETFIGHTER 2 0891 445 927  
CHUCK ROCK 2 0891 445 946  
FIRST SAMURAI 0891 445 926  
SHADOW OF THE BEAST 1&2 0891 445 949

FOR FULL INFORMATION ON ALL OUR OTHER  
CHEATLINES AND HELPLINES DIAL:

0891 445 904

HYPERSPACE 10 IS A BAD PLACE TO BE! THAT ABANDONED  
SPACE STATION LOOKS DANGEROUS!! HAVE YOU GOT WHAT IT TAKES

## FOR THE ULTIMATE QUEST ???

DIAL 0891 101 255 AND PLAY THE GAME WITH  
THE GREATEST PRIZES

GUIDING LIGHT COMPUTER SERVICES LTD

FOR FULL COMPETITION RULES SEND S.A.E

Calls charged at 36p/Min Cheap Rate & 48p/Min All other Times. Max. Call Charge £3.60  
PO BOX 17 ASHTON -UNDER-LYNE OL7 0NN

C&S COMPUTERS  
37 PARK ROAD,  
ST MARYCHURCH,  
TORQUAY, DEVON  
TQ1 4QR  
TEL: 0803 329190



CHEQUES + P/ ORDER-  
PAYABLE  
TO  
C+S COMPUTERS, PLEASE.  
POSTAGE ON DISKS  
1 TO 49 £1.00  
50 TO 100 £2.50  
OVER 100 £4.50

NEW 3.5" DISKS  
GUARANTEE FOR ONLY 33p EACH!!  
inc. Labels  
Minimum Quantity 20

FREE DISK  
BOX WITH  
EVERY  
ORDER

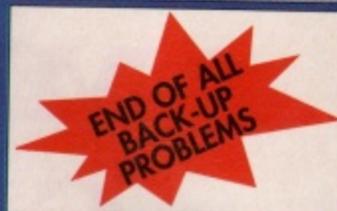
## AUGUST CLEARANCE!!!

Abandoned Places 4.99	Eagle Rider 4.00	Max Compilation (Swiv, Dragon) 5.00	Soldier of Light 2.50
Air Support 7.00	England 4.00	Nightshift, Turrican II & St	Sorcerers Apprentice 2.50
Alien Storm 5.00	Eswat 4.50	Mean Streets 4.00	Spellbound 4.00
Alien World 4.50	Falcon Classic Collection 5.00	Mega-Lo-Mania 5.00	Sporting Winners 5.00
AMC 5.00	Falcon, + Mission Disk 7.00	Microtec 4.00	Sports Best Compilation 7.00
Anios 5.00	1&2 7.00	Milestones 2.50	Spot 4.50
Antago 4.00	Fallen Angel 2.50	Millenium 2.2 2.50	Star Command 4.50
Apprentice 4.50	Fighter Command 5.00	Mindroll 4.00	Starblade 4.00
Atomino 4.50	Flight of The Intruder 5.00	Movie Premiere 7.00	Stellar Crusade 4.50
Awesome 5.00	Football Boss 2.50	Mr So Run Run 2.50	Steve McQueen's
Barbarian II 5.00	Football Sim 2.50	Murders in Space 4.50	Westphaser 4.50
BAT 4.00	Gauntlet III 5.00	Mystical 4.50	Stormball 4.50
Black Tiger 4.00	Genesis The 3rd Day (Similar to Vista Pro inc. Animation) 9.00	Necronom 4.50	Stratego 5.00
Borodour 4.50	Ghostbusters II 4.00	Neverending Story II 4.00	Street Hockey 4.00
Brides of Dracula 4.50	Ghouls and Ghosts 4.50	Nevermind 4.00	Strider II 4.50
Cardiass 4.00	Grand Stand 5.00	Night Hunter 4.00	Subuteo 4.00
Carthage 4.00	Great Napoleonic Battles 5.00	Nightbreed 4.00	Super Hang On 2.50
Challengers 5.00	Heavy Weight Action 4.50	No exit 4.00	Super Ski II 4.50
Chaos in Andromeda 4.50	High Energy 4.00	Operation Combat 4.50	The Curse of Ra 4.00
Chess Simulator 4.00	Hollywood Collection 7.00	Operation Harrier 2.50	The Executioner 4.50
Cisco Heat 4.00	Hot Rubber 4.50	Ork 4.00	The Godfather 4.50
Coin op Hits II 7.00	Hunter 4.50	Outlands 4.00	The Killing Game Show 5.00
Cougar Force 4.50	Hyperaction 4.00	Pacland 2.50	The Lineker Collection 7.00
Count Duckula 2.50	Infestation 5.00	Photon Paint V2.0 7.00	The Magic Garden 4.50
Crackdown 4.00	Int Championship Athletics 4.50	Pictionary 4.50	The Running Man 2.50
Crystals of Arborea 4.50	Jewels of Darkness 4.00	Postman Pat 2.50	Time Machine 4.00
Damocles 4.00	Jim Power 4.50	Power Up 7.00	Tracker 4.00
Darius 4.00	Khalan 4.00	Predator II 4.50	Turtles World Tour 4.50
Dark Spyre 5.00	King of Chicago 2.50	Premier Collection 4.50	Typhoon of Steel 4.50
Days of Thunder 2.50	Knights of Crystallion 4.00	Prospector 4.00	Viking Child 4.00
Debut (Similar to Sim Earth) 4.00	Last Ninja III 4.50	Puzznik 4.00	Viz 4.00
Demons Winter 4.50	Line of Fire 4.50	Quartz 4.00	R-Type II 4.00
Demonware 4.00	Loards of Time 5.00	Rings of Medusa 2.50	Robozone 5.00
Die Hard II 5.00	Magnum 4 5.00	Robozone 5.00	Warlock The Avenger 4.50
Disc 4.50	Manhunter II 5.00	rotax 4.50	Warp 4.00
Distant Armies 4.00	Matrix Marauders 4.00	Round The Bend 4.50	Web of Terror 4.00
Dragon Fighter 4.00		Safari Guns 2.50	Wheels of Fire 7.00
Driving Force 2.50		Shadow of The Beast 115.00	Wreckers 4.50
Dyter-07 4.00		Skidoo 2.50	Yolanda 4.00
Emotion 4.00			Z-Out 4.00

FOR OUR FULL CATALOGUE OF GAMES, DISK BOXES, HARDWARE & JOYSTICKS ETC PLEASE SEND £1.00 TO ABOVE ADDRESS (REFUNDED WITH 1ST ORDER) & SAE ALL ITEMS ARE SUBJECT TO CHANGE & AVAILABILITY E&OE

## APEX WILL BACK-UP ALL KNOWN SOFTWARE - GUARANTEED!!! ESSENTIAL FOR ALL AMIGA A500/A600 & A1200 USERS

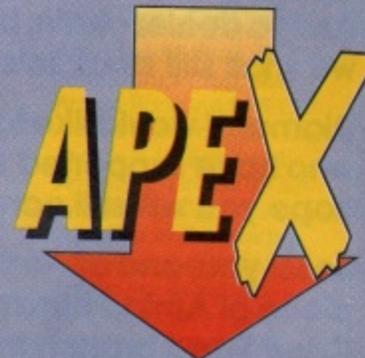
- MORE POWERFUL THAN ANY OTHER COPIER AVAILABLE - GUARANTEED.
- INCORPORATING LATEST TECHNOLOGY AST ADVANCED SYNCRO TECHNOLOGY.
- QUICK & EASY TO USE & INSTALL EXTERNAL DRIVE REQUIRED.
- FULL COMPREHENSIVE EASY TO USE MANUAL ON APEX + TOOLKIT.
- FULLY AUTOMATIC HARDWARE/SOFTWARE ROUTINES TO COMBAT ALL PROTECTION.
- APEX CARTRIDGE USES LATEST TECHNOLOGY CUSTOM CHIPS FOR INCREASED POWER AND RELIABILITY NO OTHER COPIER OFFERS THIS ONLY SOFTWARE UPDATES!!!



INCREASED  
POWER!!

£39.95

INCLUDING P/P & VAT  
NOW INCLUDES  
APEX TOOL KIT



TOOL KIT  
NOT ONLY THE BEST  
COPIER BUT SO  
MUCH MORE!!!



THE MOST POWERFUL AMIGA DISK BACK-UP SYSTEM EVER!!  
THERE IS NO SOFTWARE THAT CANNOT BE COPIED USING APEX

ORDER APEX NOW & COPY ALL YOUR SOFTWARE - GUARANTEED!!!

1988 COPYRIGHT ACT, ASHCOM DESIGN & DEVELOPMENTS LTD NEITHER CONDONES NOR AUTHORIZES THE USE OF ITS SOFTWARE FOR THE REPRODUCTION OF COPYRIGHTED SOFTWARE.

EXISTING APEX USERS CALL FOR TOOL KIT VERSION

### A1200 RAM EXPANSION

TRUE 32 BIT FAST RAM  
REAL TIME CLOCK  
4 MB & 8 MB VERSIONS  
LATEST ZIP TECHNOLOGY  
AUTO-CONFIGURE  
JUST PLUG IN !!  
4 MB £199  
8 MB £339  
NOW IN STOCK!!

### AMIGA RAM EXPANSIONS

A500 1/2 MEG+CLOCK	£16
A500 1/2 MEG	£14
A500 2 MB-8 MB EXT	£CALL
A600 1 MB EXP+CLOCK	£35
A600 1 MB EXP	£32

LOOK  
AT  
THESE  
LOW  
PRICES

ALL PRICES INCLUDE VAT & P/P. NORMALLY DESPATCHED WITHIN 48HRS. MON-FRI 9.00-5.30; SAT 9.30-2.00

**ASHCOM**  
DESIGN & DEVELOPMENTS LTD.  
10 THE GREEN  
ASHBY-DE-LA-ZOUCH  
LEICESTERSHIRE LE61 5JU

TEL: 0530-411485  
FAX: 0530-414433



ALL PRICES INCLUDE VAT AT 17.5%

# DIAMOND

## AMIGA CLEARANCE GIVE AWAY SALE

Due to our massive success in the world of PC computers with our own brand name Diamond Phoenix, a company decision has been taken to part company with the Amiga. It must be said that this was a hard decision as Diamond was founded in this market and went on to become Northern Europe's leading Amiga dealer chain, but times change. As of now Diamond will be known as only a PC supplier, although we shall still stock leisure titles and obtain application software to order.

Diamond would like to take this opportunity to thank every single customer, 274,312 in all to be precise, who have supported us over the years with purchases of Amiga related goods from our stores, and we hope you will still come and visit us for your software or if you switch over to a PC in the future.

So for you, and all Amiga buffs out there, Captain Diamond as a last gesture is literally giving away every piece of Amiga hardware we have in any of our branches. This is a one day only sale at our Tottenham Court Road branch in Central London and will be held on Sunday 1st August.

**SUNDAY 7TH AUGUST**  
**TOTTENHAM COURT ROAD**  
**STORE ONLY 10 -5PM**

**Amiga  
Commodore  
Power Supply  
only  
£19.95**

**A2000  
PC Emulators  
only  
£99.95**

**Trumpcards  
only  
£49.95**

**AT  
Bridge  
Boards  
A2000/1500  
only  
£149.95**

**A500  
600/1200  
Dustcovers  
only  
99p**

**Quick  
Joy Turbo  
Joysticks  
only  
£4.95**

FOR BRANCH DETAILS SEE LAST PAGE OF THIS ADVERT

MAIL ORDER RING 0703 334638 OR 0703 230934 MAIL ORDER RING 0703 334638 OR 0703 230934 MAIL ORDER RING 0703 334638 OR 0703 230934 MAIL ORDER RING 0703 334638 OR 0703 230934



# UNIVERSAL COMPUTER



**DIRECT MAIL ORDER**

47 Oxford St.  
Whitstable  
Kent CT5 1DB

**CALL OUR HOTLINES**

Tel: 0227 773177  
Fax: 0227 771076

**OPENING HOURS** mon/fri. 9.00-7.00 sat 9.00-5.30

FREE HOTEL ACCOMMODATION for two, with any standard AMIGA purchased

**The Best Value & Service Direct To Your Home**

## AMIGA A1200

**The Amiga A1200 is the 90's AMIGA**  
68020 Processor operating at 14MHz, AGA Graphics Chip set gives you a palette of 16.8 MILLION Colours, so 256,000 colours on screen at any one time. The A1200 comes with 2Mb of Chip RAM as standard, and a 1 Year on site maintenance warranty FREE. **A 32BIT HOME COMPUTER**

**U.C.S. PRICE £359.99**

### AMIGA A1200 COMIC RELIEF Pack

This A1200 comes to you with a free copy of Sleepwalker software worth: £25.99. £10.00 will be given to comic relief for every pack sold.

**U.C.S. PRICE £365.99**

## AMIGA 1200HD

A1200-40MBHD.....£516.99  
A1200-60MBHD.....£552.99  
A1200-80MBHD.....£564.99  
A1200-120MBHD.....£634.99

### ZOOL S/WARE PACK

This amazing offer available with any amiga purchased, includes: Zool, Striker, Pinball Dreams & Transwrite normal retail price £127.92

**U.C.S price £8.99**

## AMIGA A600

**The Amiga A600 Standard Pack**  
Amiga A600 with single drive, 1Mb Chip RAM, Built in TV Modulator, Mouse & Manuals, Workbench 2.4 1 Year on site warranty.

**U.C.S. PRICE £189.99**

### A600 WILD, WEIRD & WICKED

Amiga A600 as above With four excellent Titles: Deluxe Paint III, Formula one Grand Prix, Putty & Pushover.

**U.C.S. PRICE £284.99**

### A600HD Epic Hard Drive Pack

Amiga A600 standard pack, With four Software Titles: Dpaint III, Trivial-Pursuit, Epic & Rome. + An Int.Fitted HARD DRIVE.

With 40MB Hard Drive..... £369.99

## AMIGA 500+

**A500 plus Cartoon Classic**  
**Limited number please phone**  
A500+ 1Mb RAM, TV Mod, Workbench 2.4, Mouse & Manuals.

**U.C.S. PRICE £194.99**

## AMIGA 4000-040

**The ULTIMATE AMIGA**  
68040 blistering Processor 25Mhz, AGA chip set, 256,000 colours from 16.8 million, flicker free display, 3.5/1.76 MB 3.5"drive, Cross Dos, WB. 3 2Mb Chip Ram (32Bit) 4MbFast Ram (32Bit), 120Mb HD. 1 year on site Warranty..

**U.C.S. PRICE £1975.99**

## AMIGA 4000-030

68030 Processor-25MHz AGA Chip set as above. 4 Mb of RAM (32Bit) . WB.3 1 year on site Warranty

80MBHD-2+2 **U.C.S. PRICE £1058.99**

120MBHD-2+2 **U.C.S. PRICE £1158.99**

## AMIGA 3000

**The superb AMIGA 3000**

52 Mb-Hard Drive, 68030 Processor 25MHz, 3.5 880K FD, spare drive bay 512K 32Bit ROM, 4 Zorro III slots

52 Mb Hard Drive.

1Mb Chip, 1Mb Fast RAM. **£877.99**

Above with 105MBHD.....**£959.99**

## MONITORS

1960 multi-sync..... £377.99  
Commodore 1084 S..... £189.99  
Phillips 8833-col..... £199.00  
Commodore 1084 ST..... £189.99  
Commodore 1940..... £289.99  
Commodore 1942 multi-sync.. £289.99

## HARD DRIVES

**Commodore A590 20Mb**

20Mb Hard Drive with sockets for up to 2Mb Fast RAM, ext.SCSI interface autoboots with Workbench 1.3+, built-in Fan..... **£174.99**

**GVP. Series II HD8+ Hard Drives**

The A500-HD8+ provides the ultimate in hard disk performance for the Amiga 500/+ simply the best..

GVP A500-HD8+ 42Mb.... £269.99

GVP A500-HD8+ 80Mb.... £349.99

GVP A500-HD8+ 120Mb.... £399.99

GVP A500-HD controller £174.99

GVP IMPACT SERIES II hard drives, with game switch, SCSI port, Int.RAM expansion up to 8Mb FAAASTROM SCSI Driver and a full 2 year Guarantee.

**GVP Series II 1500/2000**

GVP 42Mb HD & Ram card £274.99

GVP 80Mb HD & Ram card £329.99

GVP120MbHD & Ram card £404.99

GVP controler & Ram card £119.99

ALL UCS PRICES INC. VAT.  
FAST UK DELIVERY.  
SAME DAY DESPATCH.

## VIDEO TITLING & EDITING PACKS

### BUDGET PACK

A500+ CartoonsClassic  
Ext Disk Drive  
Rocgen+ Genlock  
Scala or Videostudio 3

**UCS Price £473.99**

### SEMI-PRO PACK

AMIGA A1200  
Ext Disk Drive  
Rocgen+ Genlock  
Scala 100

**UCS Price £649.99**

### SEMI-PRO-PLUS.

AMIGA A1200-80MBHD  
Rocgen+ Genlock  
Scala 100  
DPAINT 4 AGA

**UCS Price £1090.00**

### PRO PACK

AMIGA A4000-030-80MBHD  
Scala VS 1.13 Pro  
Vidio Director (Edit Controler)  
DPAINT 4 AGA.  
GVP Genlock.

**UCS Price £1670.00**

**HOW TO ORDER**  
**ALL MAJOR CREDIT CARDS ACCEPTED**

We offer same day despatch for credit card orders placed before 5pm, or send cheques, bankers draft, postal orders To **UNIVERSAL COMPUTER SYSTEMS** 47 Oxford st, Whitstable, Kent, CT5 1DB. Please allow 7 working days for personal/business cheques to clear. Send your Name & address, along with your daytime Telephone number (if possible) and your order requirements. **PHONE**, phone our order hotlines with your credit card number, address & order requirements **AND WE WILL DO THE REST.**  
**POST & PACKAGING** Please add £1.00 per item of software & small paraph. Add £5.00 per item for large Peripherals & Hardware

**BE SURE TO MAKE THE RIGHT CHOICE**

Buying by mail order can be fraught with problems, so making the right choice of mail order company is essential. We at **UNIVERSAL** are ourselves devoted Amiga users, and are therefore able to offer you the customer our full support. We can offer you a fast and efficient delivery service with the minimum of fuss. **ALL U.C.S. Prices are inclusive of VAT.**  
 If you are looking to buy an item not listed in our current advertisement, please phone and ask, we will undoubtedly have it available. All offers are subject to availability. All prices are subject to change, but are correct at time of going to press.

**FREE P.D. SOFTWARE With any order over £100.00**

**PRINTERS**

CANON	
CANON BJ 10SX Portable.....	£289.99
CANON BJ 200 Desk Top.....	£345.99
CANON BJ300DT/(80column)	£374.99
CANON BJ330DT/130 " " ).....	£479.99
CITIZEN	
CITIZEN Swift 200 colour.....	£214.99
CITIZEN Swift 200 mono.....	£186.99
CITIZEN Swift 240 colour.....	£262.99
CITIZEN Swift 240 mono.....	£249.99
SEIKOSHA	
SEIKOSHA SL95 colour.....	£209.99
SEIKOSHA FP 1900PLUS mon	£109.99
STAR	
STAR LC 100 colour.....	£164.99
STAR colour with paper parking, 8 fonts and DIP switches.	
STAR LC24-100.....	£184.99
STAR colour with compressed data, 10 fonts, 16k buffer.	
STAR LC 20.....	£129.99
STAR LC 200 colour.....	£194.99
STAR LC24-200 colour.....	£269.99
STAR LC24-200 mono.....	£214.99
STAR XB24-200 colour.....	£379.99
STAR SJ48 bubble jet.....	£209.99

**SCANNERS**

GOLDEN IMAGE	
Alfa Scan Hand scanner.....	£119.99
Alfa Scan Plus H/Scanner.....	£139.99
Alfa Scan OCR (inc. ocr.S/W.)	£269.99
POWER	
Power Scanner Mon.v3 A500/+	£107.99
Power Scanner Col. A500/+.	£224.99
Power Scanner Col. A1500.....	£224.99
FLAT-BED	
Epson Flatbed 6500.....	£749.95

**SOFTWARE**

APPLICATION S/W.	
Wordsworth 2.....	£87.99
Excellence 3.....	£54.99
PenPal.....	£35.99
Final Copy 2.....	£69.99
The Publisher.....	£36.99
Home Accounts 2.....	£37.99
Mini Office Pro.....	£37.99
Hyper Book.....	£49.99
CanDo V2.....	£99.99
Amos.....	£36.99
Amos Pro.....	£44.99
Amos Compiler.....	£19.49
Directory Opus IV.....	£49.99
Quarterback.....	£42.99
Quarterback Tools V5.....	£59.99
Cross Dos + V5.....	£21.99
Pro-Midi Interface.....	£17.99
VideoMaster.....	£44.99
D.Paint IV AGA.....	£69.99
Scala.....	£74.00
Scala 1.3 Pro.....	£165.00
Scroller 2.....	£58.00
Video Studio 3.....	£114.99
Mini Studio.....	£50.00
Video Director.....	£120.99
Vidi 12 AGA.....	£POA
Vidi 12 Real Time.....	£POA
Cine Morph.....	£39.99

**ROM SHARERS**

A600 Rom Sharer.....	£28.50
Rom Sharer Kickoff.....	£16.95
2.0 Rom.....	POA
1.3 Rom.....	POA

**ACCESSORIES**

**MICE & TRACKBALLS**

Dectec Mouse.....	£13.99
Power Mouse.....	£17.99
Alpha Data (Optical Mouse).....	£33.99
GOLDEN IMAGE	
Mega Mouse.....	£12.99
Optic Optical Mouse.....	£31.99
Infrared-Cordless Mouse.....	£47.99
Optical Pen Mouse.....	£39.99
Crystal Trackball.....	£35.99
600.....	£14.50
NEW 400 Dpi Mark 2.....	£16.99

**LEADS & CABLES**

Amiga 8833 Mk.2.....	£8.99
Amiga Multisync.....	£POA
Amiga Scart.....	£8.99
Disk Drive Extension.....	£9.99
JoyStick Long Extension.....	£5.99
Midi Midi 2M.....	£3.99
Midi Midi 4M.....	£5.99
Modulator Extension.....	£9.99
Mouse & Joystick Ext.....	£5.99
Mouse & Joystick Splitter.....	£18.99
Printer 1.8M.....	£4.99
Printer 3.0M.....	£7.99

**JOYSTICKS**

Cheetah Bug.....	£12.99
Competition Pro 5000.....	£13.99
Crusher (Black).....	£POA
TrackJoy Jetfighter.....	£11.99
TrackJoy 137 F Python.....	£9.99
TrackJoy 155 Aviator.....	£25.99
TrackJoy TopStar.....	£20.99
Wheel.....	£25.99

**Bits & Things**

14" Monitor Dust Cover.....	£5.99
14" Tilt & Swivel Stand.....	£15.95
A500 Dust Cover.....	£3.99
A600 Dust Cover.....	£3.99
Anti Glare Screen Filter.....	£14.99
Control Centre A500/+.....	£38.99
Control Centre A600.....	£35.95
Lockable Disk Box 100cap.....	£8.99
Lockable Disk Box 80cap.....	£7.99
Lockable Disk Box 40cap.....	£5.99
Mouse Mat.....	£3.49
Stereo Speakers.....	£14.99

**MEMORY**

A500/500+	
POWER Ram Exp.UNITS	
2Mb pop to 2Mb.....	£125.99
2Mb pop to 4Mb.....	£189.99
2Mb pop to 8Mb.....	£289.99
TRAPDOOR EXPANSIONS	
A500	
512K with clock.....	£25.95
512K without clock.....	£21.95
A500 plus	
1Mb.....	£32.99
A600	
1Mb with clock.....	£44.95
PCMCIA	
1200 PCMCIA card 2Mb..	£115.95
1200 PCMCIA card 4Mb..	£184.95
A1200 Trap-Door Exp.	
Microbotics	
Bare Board no FPU.....	£118.99
14MHz-68881- 0MB.....	£179.99
" " " 4MB.....	£289.99
" " " 8MB.....	£389.99
25MHz-68882- 0MB.....	£289.99
" " " 4MB.....	£389.99
" " " 8MB.....	£489.99
50MHz-68882- 0MB.....	£389.99
" " " 4MB.....	£489.99

**GENLOCKS**

GVP	
GVP G-Lock Genlock.....	£331.95
ROCGEN	
ROCGEN Plus.....	£144.99
ROCGEN Rocky.....	£279.99

**SUPER A1200s**

A1200- 6Mb-80MbHD-14MHz.	<b>UCS PRICE £849.99</b>
A1200-10Mb-80MbHD-14MHz	<b>UCS PRICE £949.99</b>
A1200- 6Mb-80MbHD-25MHz	<b>UCS PRICE £949.99</b>
A1200-10Mb-80MbHD-25MHz	<b>UCS PRICE £1049.99</b>
A1200- 6Mb-80MbHD-50MHz	<b>UCS PRICE £1049.99</b>
A1200-10Mb-80MbHD-50MHz	<b>UCS PRICE £1049.99</b>

Many more Titles in stock  
 Please phone



Please Call Us  
 On 0227 773177  
 Fax 0227 771076

**£5.00**  
**Next Day**  
**Delivery**

**Same**  
**Day**  
**Despatch**

**P/X**  
**Your**  
**old**  
**AMIGA**

**We will try**  
**to beat**  
**all other**  
**prices**

**ORDER FORM**

Name.....  
 Address.....  
 .....  
 .....  
 Postcode.....  
 Home Tel. ....  
 Order Description.....

**PAYMENT**

I Enclose cheque/PO for  
 £.....  
**CREDIT CARD...**  
 Card Type.....  
 Card No.....  
 Exp. Date.....  
 Card Holder Name &  
 Address.....  
 P/Code.....  
 Amount.£.....  
 Please Debit my credit card  
 for the above amount.  
 Signed.....

# GET SERIOUS

Brace yourself for another trip through the wonderful world of technical wizardry with this month's Get Serious section.

- 96 AWARD CONSTRUCTION KIT
- 97 ILINIOS PROFESSIONAL XL-1
- 97 NCOMMAND PRO
- 98 V-LAB Y/C
- 102 PROPER GRAMMAR
- 104 MIGRAPH SCANNER
- 107 GIGAMEM
- 110 OCTAMED V.5
- 114 DELUXE MUSIC CONSTRUCTION SET 2
- 119 DIGITA FONT COLLECTIONS
- 122 FITTING AN A1200 IDE INTERNAL HARD DRIVE
- 128 JOYSTICKS BUYER'S GUIDE
- 132 ART GALLERY
- 136 PD SCENE
- 138 PD UTILITIES
- 142 READERS' OFFERS



The CU AMIGA top rated accolade for non-games products scoring over 90%. They will definitely be worth the money and are likely to act as a benchmark for future releases.



## AWARD CONSTRUCTION KIT

Loosely based on the old *Award Maker* program, *ACK* contains 50 different awards and certificates ranging from the commonplace '1st Place certificate' to the humorous 'You've been Had' award. There are also 12 blank templates for you to fill as you see fit. Many of the awards also include appropriate graphics.

Once you've chosen the style of the award that you want, a full-colour screen representation will be shown so that you decide if it looks OK.

The award is basically composed of a number of parts: the border, the headline, the body text and a seal (if required). Each of these elements can be altered to your heart's content. The program comes with six headline fonts and eight for the body text. The body text is where you actually put the recipient's name and any details about the nature of their award. If you prefer, you could leave this area blank.

There are also 11 different border types ranging from the conventional foils and scroll-work to movie film and icicles. These borders are drawn in two colours which can be altered via the palette. In fact the colour of every element of the program from text to borders can be changed.

A choice of five seals (lips and skull and crossbones being the two most interesting) ensure that your awards will be finished in style.

When it comes to printing, *Award Construction Kit* uses your Workbench printer preferences, so provided they're set correctly, you shouldn't have any problems. Awards are printed as a straightforward screen dump so they don't take too long to output. This does mean that graphics and text can look a little blocky sometimes, but the overall effect is quite convincing. The program can be installed to hard drive although the installation program is very basic - DH0 or DH1 only. Fortunately, it's an easy matter to install the program elsewhere and create your own assignments in the startup-sequence.

*ACK* has space for a number of user-defined awards, and these can be stored on disk for rapid retrieval. Unfortunately, you can only define five awards per disk as they are written to a specific area of the disk. I suppose that you could make lots of duplicate disks if you define a lot of styles.

An enterprising reader could make themselves a bit of money at fetes or even on a market doing mostly humorous awards. The program is certainly quick and easy enough to use.

Available from: E.M. Computergraphic, 8 Edith Road, Clacton on Sea, Essex, CO15 1JU. Tel 0255 431389. Normal cost £39.99 but being offered at the introductory price of £29.99 for a limited two-month period.

**85%**



# ILINIOS PROFESSIONAL

It's a database! It's a mail merger! It's a labelling system! It's Ilinios Professional! The blurb on the box claims that it was 'written with the user in mind', and it looks as if it could live up to the claim when you first boot up.

Earlier versions of this program were purely keyboard controlled, and not too user-friendly. Now the interface has been updated to make use of the mouse, and it's a hell of a lot quicker to get around the various functions.

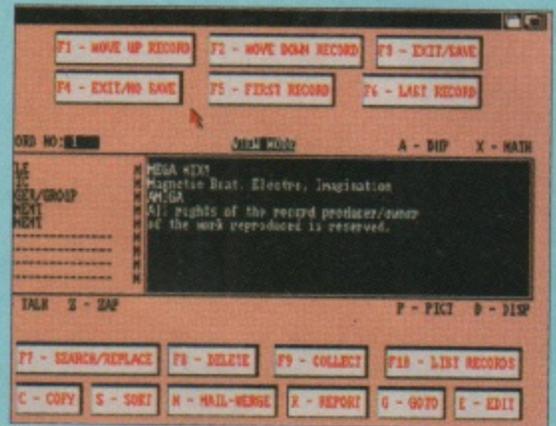
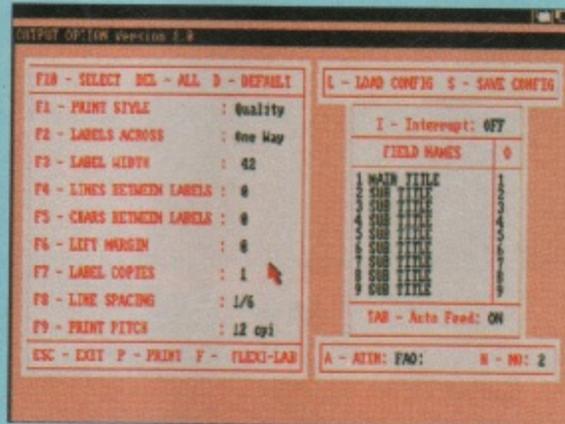
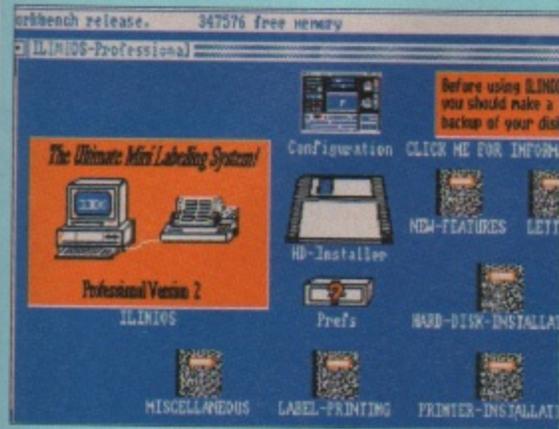
On the database side, you'll find that it's capable of much the same functions as those of any other basic database

available on the market today. IFF pictures can also be attached to and files you enter. Included with the software are some address, disk, and cassette labels.

*Ilinios Pro* has enough features to take care of a modest database/mail-shot requirement. Including some sample labels is a good idea, and lets you get started straight away. If you need a low-cost labelling system and database, *Ilinios Pro* is worth a look.

Available from: Code Works Software, 31 The Meadows, Hanham, Bristol, BS15 3PA. Tel: 0272 478402. Price: £24.95

70%



## XL-1

**X**L-1 isn't your run-of-the-mill sample CD. Sure, it's chock full of stomping beats, vocals, loops and all the rest of it, this one's a bit different.

It's a two-disc set from Polestar Magnetics, who were also responsible for the fabulous *X-Static Goldmine* double pack. The first disc has a complete cross-section of dance music samples, but instead of laying them out in the usual way, with a section for bass, one for drum loops, one for vocals etc., there are 60 three-bar demo songs, which are then followed by the samples used to create them.

If you're flicking through a CD for a good bass sample, hearing lots of tones one after the other can get confusing, and after a while your ears turn off. You could be passing up some great sounds, but without hearing them in context (ie. playing a bassline in this case), they just sound like a series of drones.

The same could be said about any other sounds you might be sampling. This is where the short demo songs come in. They lend the samples a context, which gives you a much better idea of the effectiveness of the sounds.

The demos are in a wide variety of styles, including garage, house, hip hop, techno, hardcore, ragga, trance, funk and disco. They know their stuff, these Polestar bods. After the demos, there are quite a few tracks of drum samples, including the TR-808, 909 and so on, with a lot of others taken from all over the place.

Disc 2 is considerably more conventional, with the various samples being grouped into sections of similar sounds. Some of the samples are duplicated from CD 1, which is a bit of waste of space - space that would have been better used for new sounds. Apart from the occasional repetition, the second CD is top notch. There are plenty of loops in all kinds of dance-orientated styles, along with a good helping of breaks, vocals, fx and chords.

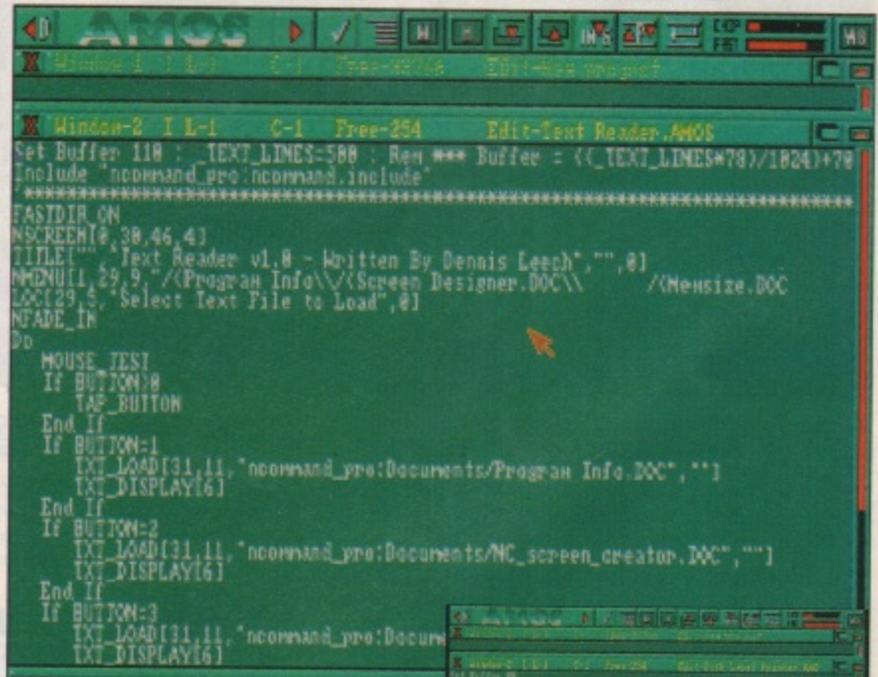
My only quibble is with the price, which seems a bit steep. Other than that, it's hard to fault this delicious feast of dance samples.

Available from: Time and Space, PO Box 306, Berkhamstead, Herts, HP4 3EP. Tel: 0442 870681. Price: £79.95

89%



## NCOMMAND PRO



**W**hile AMOS is a pretty powerful language, there's always room for improvement. Most programs written in AMOS have a certain look and feel that gives away their origins. This is due to the customised interface, with its own style of requestors and buttons. With *NCommand Pro*, you can give your programs a whole new front end.

The main *NCommand* program comes as an AMOS accessory. When run through AMOS, it gives you 47 new commands to play with. These are all geared towards making your programs more user friendly, offering alternatives to the standard windows and buttons offered by the AMOS system.

Although it runs fine on a 1.3 machine, the end results look and work just like Workbench 2-3 programs. All the usual file requestors and text input boxes are easily created, and even things like cyclic boxes and check boxes are no problem. Another command allows you to knock up progress boxes in a jiffy, and there's also an automatic snoozing pointer option.

If you want to shake off the stigma from your AMOS creations, and make them a lot easier to use in the process, *NCommand* is definitely the way to go.

Available from: Oasis Software, Price: TBA.

77%

# V-Lab Y/C



Could this really be the most complete digitising system ever? Nick Veitch gladly grabs his chance to find out.



There used to be any number of digitisers around for the Amiga. There still are, but these days most of them seem to come from the same company – MacroSystem. Why? Well, they all address different needs. The very latest is V-Lab Y/C, a reworking of the original Zorro card version of the grabber. This is a board developed specifically for a component system such as the S-VHS standard.

It will grab any component Y/C source so you can use it with any equipment which has a Y/C output. At the moment this includes a large num-

ber of video decks and camcorders. The downside to this is that they tend to be the more expensive pieces of equipment, but the extra picture quality is worth it. It also has two composite source inputs, so you can use horrible inferior image sources if you wish.

## SOURCEY STUFF

It is necessary to select a source before you start grabbing. There are a number provided, including the 'DEFAULT' one which is active at startup and is more or less designed to work with a bog-standard VTR.

If you aren't happy with this for any reason, there is always the option of defining your own. There are a range of filters covering the chrominance, luminance and noise. This is also the place to set the VTR switch if your source is a VTR.

The reason for this is that video tape decks are all the same. You may think you are getting a regular 25 frames per second, but the actual speed can vary quite horribly. This is simply not good enough when you are frame grabbing. Grabbers may not need an exact 25 fps playback speed, but they do like to get their frames regularly.

Left: The S-VHS plate test. Top half is nasty VHS. You really can see the difference.

Pseudo 18-bit colour is the best you get from PAL. Previews can be displayed in a window on the grabbing screen itself.

## WHY Y/C?

If it is possible to send images down one wire, why should we bother with two? Well, the composite system is fair enough, and it does go easily down one cable. This saves effort and expense, but it is a bit of a con. Video images are made up from two signals, Chrominance (which determines the colour) and Luminance (which determines the brightness).

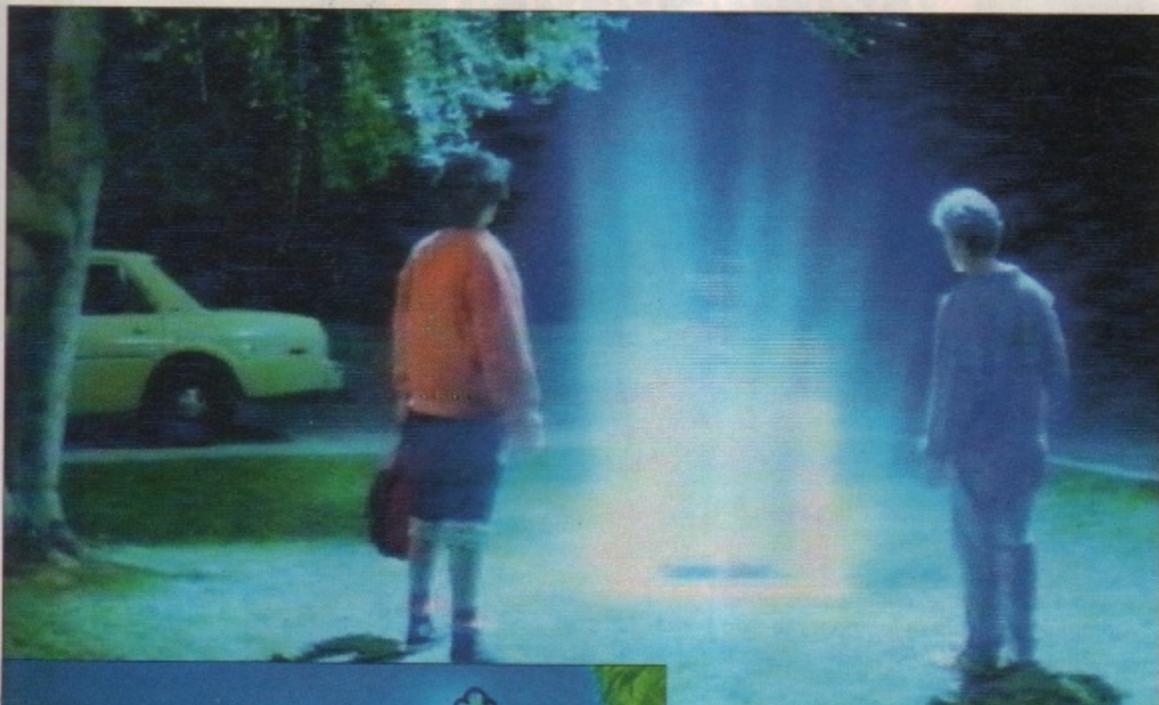
In a composite signal, both these values are encoded into a single waveform, but there is a resultant loss in quality. Keeping these signals separate reduces any interference due to crossover and bypasses the losses caused by the encoding process.

The disadvantage of a component system is that there are twice as many channels of information, making it almost completely incompatible with conventional composite technology. There is no point in having a component device in your system if everything else doesn't work in component, too. This means that it is necessary to have a Y/C video deck, too.

Such decks do exist, mostly conforming to the S-VHS standard, which doesn't make any difference to the signal they produce, but does make a difference to the way these images are stored on tape.

The difference can be go deeper though. An S-VHS VTR, or any component video deck, can still output separate Y/C signals whatever source tape you use. If you have S-VHS tape though you are going one better. The S-VHS format has a resolution of around twice that of normal VHS tape, giving a much better picture.





Pictures of this quality are hard to come across from any source. Especially one like this.

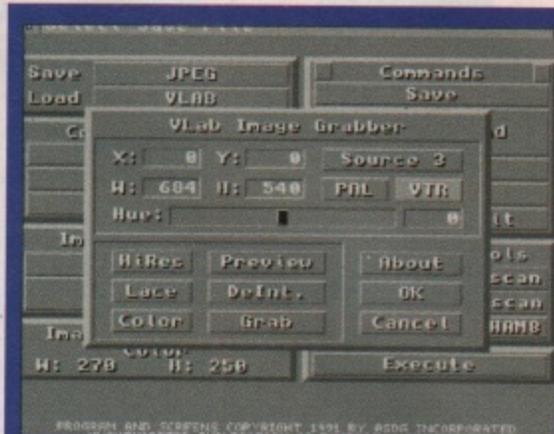
Movies on CD could be of this quality.

### DOING IT

Once you have a source set up the first feature you will want to use is the monitor. This opens up a window on the current V-Lab screen which allows it to show the input that V-Lab is currently receiving. You can choose between two sizes on the Amiga display, but the image can also be piped directly to the Retina display card if you have one installed. This is by far the best way of using V-Lab, especially if you also have a copy of ASDG's *ADPro*.

The V-Lab monitor window is good enough though, and is quite detailed on a 16-colour screen. It is able to keep up with the action too, delivering around seven frames per second on the A4000/040.

The second stage is the actual grabbing of the image, which MacroSystem refer to as scanning. The easiest way to do this is to call up the scan

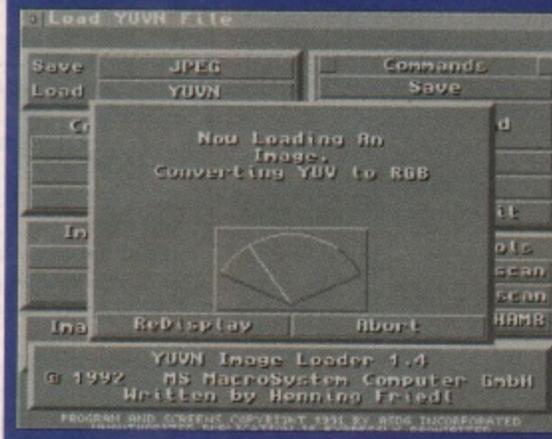


### ADPRO SUPPORT

In many ways, if you are just after a quick grab, the loader provided for *Art Department* is a lot more convenient than the V-Lab software.

The loader works like any other *ADPro* loader, but when selected it comes up with a selector panel with most of the grabbing options available as gadgets. These can control grabbing area, interlace, colour/mono and whether the image is to be hires or not. If you press the grab gadget and know that you missed the moment you were waiting for you can retry without having to convert the image. Only when you select 'Okay' is the image internally converted to RGB values. Because *ADPro* allocates a large bank of contiguous RAM on startup these conversions can be quicker than ones done by the V-LAB software.

There is a YUV loader supplied as well, so YUV files can be loaded directly into *ADPro* and processed.



This is not a problem with V-Lab, as it includes custom circuitry to get around this problem. This is an example of more MacroSystem ingenuity, as it is all handled by some Philips designed circuits which make up a fair percentage of the board. The image width, height and offsets can also be specified here.

V-Lab can handle image areas of 720 pixels by 625 lines (in PAL mode). In practice you will not often need this information as the first 34 lines or so are used for test information and encrypted data broadcast (such as teletext). These can be useful to grab as they may help you better adjust the output of your video source to give a clearer picture, but for normal use you'll want to ignore them. Similarly there is usually quite a gap down both sides of the screen, which you may choose to ignore. Different sources may well give you different image borders, so it is worth defining the ones you use most often.

### ALTERNATIVE BUYS

The only real alternative to the V-Lab hardware is Rombo's Vidi system. This is probably the longest running digitiser on the Amiga, having graduated from that well known home computer, the Amstrad CPC.

There have, of course, been many updates to the Vidi system, the latest version being Vidi 12, reviewed a short while ago. The software on the V-Lab system is undeniably more flexible, but Vidi does have the advantage of producing reasonable quality images at a lower price. If you are grabbing on a tight budget you may want to call Rombo on 0506 414631.

### A BRIEF ANATOMY OF V-LAB

- 1 Along the menu bar, the name of the current YUV file is displayed
- 2 This shows the x and y resolution of the current image in memory
- 3 The current source name is also displayed.
- 4 The tick boxes select the preferences for a scan. Note that you cannot later convert the picture
- 5 A preview will give you a rough estimate of what the completed image should look like
- 6 The colour conversion can handle any of the Amigas current display modes except EHB.
- 7 More options for the conversion routine
- 8 This will display the image. You can choose to display in a window, on a separate screen or on the Retina or Harlequin card if you are lucky enough to own one.
- 9 The Sequence grabber is a slightly less involved version of IFR
- 10 The monitor displays what V-Lab is currently receiving. You can choose two sizes on the Amiga display or you can watch on the Retina card if you have one.



**WE STOCK THE LOT!**

**FISH TO 840!  
AMOS DISKS!  
TBAG DISKS!  
NZ DISKS!  
AMICUS!  
AMIGAN!  
ALL CLR TITLES**

**FOR THE BEST IN  
QUALITY AMIGA  
PUBLIC DOMAIN,  
NO-ONE ELSE  
COMES CLOSE**

**DEALERS WANTED  
IF YOU RUN A PD  
OUTLET OVESEAS  
AND WOULD LIKE  
TO DISTRIBUTE 17  
BIT DISKS, CALL US  
OR FAX NOW FOR  
DETAILS!!**

**FAST SAME DAY SERVICE, HELPFUL SALES STAFF, ESTABLISHED FOR OVER 5 YEARS  
40,000 MEMBERS THROUGHOUT THE WORLD, WELL OVER 4000 TITLES IN STOCK**

**ORDERING**

**BY PHONE  
(0924) 366982  
Access/Visa/  
Switch / AMEX**

**BY FAX  
(0924) 200943**

Please Leave  
Order & Credit Card  
details

**BY POST**

Our Address is:  
**17 BIT SOFTWARE  
1ST FLOOR OFFICES  
2/8 MARKET STREET  
WAKEFIELD  
WEST YORKSHIRE  
WF1 1DH  
PLEASE MAKE  
CHEQUES PAYABLE TO  
17 Bit Software**

**DISK PRICES**

17 BIT FISH ETC ....£1.25  
SCHEME 17 .....£2.00  
AM/FM MAG .....£2.50  
AM/FM SAMPLES ...£2.50  
CLR SINGLE .....£3.50  
CLR 2 DISK SET ....£4.50  
CLR 3 DISK SET ....£4.99  
CAT DISKS .....50p

**POSTAGE RATES**

UK PD ORDERS .....50p  
OVERSEAS ORDERS 20%  
(MIN OVERSEAS P&P1.00)  
PLEASE ADD 75P P&P  
FOR COMMERCIAL  
GAMES, DISK BOXES ETC.

We also stock most new  
Amiga games at over  
20% Discount!!  
Call for details!

**NEW PD TITLES!**

X2622 Andys A1200 Utils.....Loads of excellent 1200 utils!  
+2621 Sun Jets .....Animation of 3 jets flying past the Sun  
+2620 Multiplex V1.1 .....The old sliding blocks puzzle  
+2619 First Alert .....A good virus killer compilation  
+2618 Ming Shu .....Chinese Astrology program  
+2617 Titanic Cheats V1.40.....More game cheats.  
+2616 Powercuts.....Good sound effect type sample disk  
+2615 (AB) Beatbox .....2 disk set of melodic tunes!  
+2614 Mystery 2144AD.....Futuristic murder adventure  
+2613 Shadow Sample Maker V3.1 .....Create your own!  
+2612 FakeMem .....Turns chipmem into fast!  
+2611 Mexican Massacre .....Tricky arcade action!  
+2610 CDTV Player V .....Listen to CDs in workbench!  
+2609 HD Prep .....Preps your 1200 Hard Drive!  
+2608 3DGames .....A compilation of 3 3D games.  
X2607 AGA Ferrari Slides .....One for Ferrari fans!  
+2606 Shuffle Run .....2 player only game.  
+2605 Raging Hormone III.....Raging gets some advice!!  
+2604 GUSH! .....An excellent Popeline clone!  
+2603 (AB) Parnet Set-up.....Link 2 Amigas via Parallel  
+2602 Brainbow .....Addictive puzzle game  
+2601 Boundless Void.....Great new demo!!  
+2600 (AB) Alchemy 'Rage' ..... Demo like Oddysey!1  
+2599 Satanic Rites 4.....Latest issue of this mag!!  
+2598 Dodge Em .....Avoid the cars and collect dots!  
+2597 Technologic Death.....Reminiscent of Jesus on E's  
+2596 Solitaire Sampler .....5 Solitaire type Games  
+2595 Advanced Heroquest .....Helps DM'S  
+2594 Astro 22 V 3 .....An update to disk 1961  
+2593 Compugraphic Fonts 4.....More Compugraphics  
+2592 Compugraphic Fonts 5.....More Compugraphics  
+2591 Bait Masking .....New 2 Meg Shwartz Anim  
+2590 ChequeBook & Tutors ..... Great languages Tutor!!  
+2589 Octamed V2.0 .....The Complete Version!  
+2588 Wibble World Giddy .....Superb Platform Game!!  
+2587 Compugraphic Fonts 2.....Loads of Fonts!!  
+2586 Compugraphic Fonts 1.....Even More Fonts!!  
+2585 Astronomy V2.0.....Data Generation & Graphics  
+2584 Slamball.....Futuristic Team Management  
+2583 Elevation II.....Great Sequel to disk 2328  
+2582 Tankhunter .....2 Player V Tank Action!  
X2581 Nightbreed AGA Slides .....Great 1200 pics!  
X2580 Nightbreed AGA Slides .....More 1200 pics!  
+2579 (AB) Spectrum Emulator V1.6.....A1200 Compatible!  
+2578 The Designer .....Create maps & Backgrounds!  
X2577 Cynostic AGA Slides .....Yup, you guessed!  
+2576 The Engineers Kit.....Packed with System Software  
+2575 (AB) Snow Joke Anim.....2 Meg Charly Cat Jobby.  
+2574 Xi Pro Utils .....Inc. PowerPacker, Degradar + others  
+2573 Xi Rave Samples.....Use with Protracker etc.  
+2572 AmosLoadsMoney .....Brill Fruit Machine Sim!!  
+2571 (AB) American Football .....Info on the Game & rules!  
+2570 Flute Concertos .....1.5 Meg Chip Ram Required!  
+2569 (AB) Horn Concertos .....1:5 Meg Chip Required!  
+2568 Games Galore 15.....The latest Mega games comp!  
+2567 Games Galore 14 .....More great games!  
+2566 RJ Utilities .....Inc. PerfectPaint Image Workshop.  
+2565 Capri Slideshow .....Shouldn't that be Crapri??  
+2564 Bop & Plop .....Cutesy type scrolling shootem up!  
+2563 Inventory II .....Keep track of stock, wages etc.  
X2562 Ham8 Pics.....More pics for you A1200 Owners!  
+2561 (ABC) Grapevine 15 .....No Introduction needed!!  
+2560 (AB) Demon Download .....Latest Silnts Demo.  
+2559 (AB) monty Python Anim! .....Grin! is all I will say!

(AB) AFTER A TITLE MEANS 2 DISKS !!

**BITS 'N' BATS**

Alister Brimble Presents  
"Sounds Digital"  
an amazing Audio CD  
Which Includes Theme  
Tunes for Project X etc  
Only £10.99 +75p P&P

HoBBits & SpACeS HlpS  
Last Stocks of this  
excellent Audio CD  
from Bjorn Lynne!  
Only £11.99 + 75p P&P  
While stocks last Only!

"Space Wars" - The Movie  
Last Production Run,  
Grab your copy of Tobias  
Richters stunning master-  
piece while you still can!  
Hi Grade VHS Tape for  
£11.99+ 75p P&p

"The Final Frontier"  
The only dedicated Trek  
magazine for the thousands  
of you that are out there!  
Issue 4 is on 4 disks and is  
£6.95! Each issue contains  
seminar news, Photos and  
Exclusive art from  
T. Richter!

**AM/FM \*13**  
Its Here! More news,  
reviews, Help, Utilities,  
modules, Utils, and Midi  
files for all you  
Amiga owning music  
entrepreneurs! £2.50 or  
£5.00 with samples

**LSD GRAPEVINE "15**  
You've been waiting for it.  
Well now its here! the scene  
mag that needs no  
introduction!! £3.75

**LSD LEGAL TOOLS!!**  
We currently stock all LSD  
Tools disks which are a  
valuable source of Pro  
Utils!  
Cat disk available for £1.00

**BUY 10 DISKS  
GET 1 FREE!  
BUY 20 AND  
GET 3 EXTRA  
DISKS FREE!**

**PD CD'S FOR CDTV!**

We still stock the Demo Collection, CDPD  
\*1 (Fish to 650) & CDPD II  
(Fish to 750, Scope & Jam). Each CD is  
available for £19.95 + P&P  
Only around 5% of the contents of all  
these disks are repeated on the  
17 Bit Double Disk Collection.

**CLIPART!**

We stock clipart which covers just  
about any major subject possible in  
black and white, hi-res, full colour etc.  
If you require a specific image why not  
give us a call. We should be able to  
help! Clipart disks are available singu-  
larly for £1.25 each, or you can buy  
them in pack form to save cash!

**INSTRUMENTS**

Single instrument disks for use with  
Protracker, Med, Soundtracker etc are  
available for £1.25 each. Or buy a  
complete 10 disk pack  
for only £11.50 inclusive of P&P!!

**FONTS!!**

Wether its Dpaint, PPage or Pagestream,  
we stock fonts to suit your needs! Big,  
Small, Coloured ar just plain Black and  
White Bitmapped stuff, We've got the lot!  
We also carry a superb selection of  
compugraphic fonts too!  
Single disks are £1.25 each!!

**Assassins Games Disks!**  
THE most popular games compila-  
tion are STILL coming in thick and  
fast! The ASi Collection now  
stands at over 70 disks and  
include all the latest games to be  
found in PD. Why wait for a rainy  
day when you can buy now!

The 17 Bit CD  
Approx 1700 PD Disks  
on double  
CD for only £39.99  
98% - The one  
89% - Amiga Format  
Get yours now!

## INTERLEAVED RECORDING

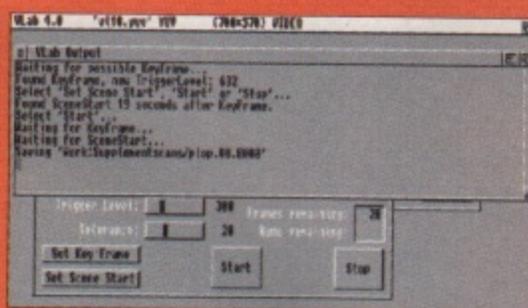
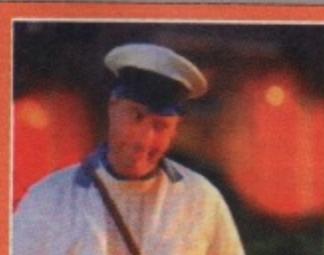
The most impressive feature about this version of V-Lab is not the hardware, but an addition to the software (which currently only works with V-Lab Y/C) called Interleaved Frame Recording, or IFR.

The principle of this involves the user choosing a pathname for the sequence and starting a video tape running. When the IFR is activated it then looks for a key frame and having located one asks the user to define the start point of the sequence.

The software then grabs as many frames as it can and, with the air-link device and a suitable macro, will rewind the tape and start again. This time around it knows which frames it has and ignores them. It will continue repeating the cycle until it has grabbed all the specified frames, usually in seven or eight passes depending on the speed of your storage device.

You must set the maximum number of frames and the interleave gap before you begin, but once it's running the software does everything itself. A more detailed description of this feature was given in last month's feature on Full Motion Video.

Obviously if we showed you every single frame you wouldn't have noticed much difference.



window, select your options and click on scan. The options are the same as in previous versions of V-Lab, allowing you to grab in high or low resolution modes, full frame and colour/mono. There is a preview function which roughly converts the image into an Amiga displayable file and shows it in a window, on a separate screen or on a Harlequin or Retina display card.

Once the scan is completed, you have a YUV image in the V-Lab's buffer. Unfortunately, you can't actually display this image directly - it has to be converted to RGB first. The reason the image is grabbed this way is because that is the way all video images are transmitted. By grabbing the complete signal the V-Lab card gets the best possible image.

## VERSIONS

The original V-Lab was produced as a Zorro card for Workbench 2.0 machines. The image quality was excellent, but at that time very few Amiga owners actually owned the right machines.

The next stage in development was the V-Lab Par, a parallel port version of the hardware which was released towards the end of last year. At last ordinary Amiga users could grab with clarity and accuracy, albeit rather slowly.

The V-Lab hardware was also supported by the Retina board, a MacroSystem 24-bit solution. The paint package bundled with it was able to grab directly from V-Lab.

Finally we have V-Lab Y/C and its amazing new software. At present the IFR grabbing software will only work with the latest version of the card, which includes version 4.0 of the software.

The lines at the top can be used to adjust the output from your source.

You can now save the image out as a YUVN file, a format developed by MacroSystem and now supported by ADPro. You may also convert the image within V-Lab to basically any Amiga image format you can think of, including 24-bit IFF and 24-bit DEEP formats. This can take a while though, which is one of the reasons that V-Lab doesn't automatically generate an Amiga image. The YUV images are not exactly 24-bit

resolution, they are more like pseudo 18-bit. That is a restriction of the PAL system though, not a fault in the hardware. Some sources could give you an RGB output at 24-bits, but there aren't many of them outside jolly expensive studio set-ups, so YUV is fine by me.

## MACRO CITY

V-Lab Y/C, like its predecessors, is fully ARexx compatible. Every feature is accessible through the ARexx port and there are even some special settings which cannot be altered any other way.

Macros can easily be added to the system, either pure ARexx scripts or ones using the concise V-Lab macro language. Examples are provided. Writing your own macros can be a bit tricky, but that's ARexx for you...

The manual is excellent. It may be lacking slightly in the tutorial department, but it does explain even the basic features of AmigaDOS / ASL requestors are explained. Someone who has never touched an Amiga before could operate V-Lab in a matter of minutes. There is even a section which explains some aspects of video technology and the display systems, which is going well beyond the call of duty. The only real problem I have with the manual is that MacroSystem don't use strong enough glue - a few pages of mine have already left the fold.

## CONCLUSION

If you have a WB2.0 Amiga with a spare Zorro slot and a camcorder you should have a V-Lab. It's as

simple as that. If you have an SVHS tape deck or better still, an S-VHS camera you need V-Lab Y/C.

The images possible on this system are the best grabs I have ever seen on the Amiga, or on any PC or Mac system come to that - including ones which cost thousands of pounds. Some of them you would be hard pushed to tell from scans done on a decent £1000 desktop scanner. At this price it would be invaluable to anyone with a small video setup. The IFR feature could make it extremely useful to people who want to develop digital graphics. **CU**

## JARGON BUSTERS

- COMPOSITE - a video signal which has all the YUV signals encoded into one.
- Y/C - a component video source, with two channels, Chrominance and luminance
- VTR - Video Tape recorder

## MACROSYSTEM £381

- A500  A500+  A600  A1200
- A1500  A2000  A3000  A4000

AMIGA CENTRE SCOTLAND,  
HARLEQUIN HOUSE, WALKERBURN,  
PEEBLESHIRE, SCOTLAND EH43 6AZ.  
TEL: 089 687583.

### EASE OF USE ◆◆◆◆◆◆◆◆◆◆ 89%

*The IFR may be a little over complicated, but grabbing is as easy as ever.*

### VALUE FOR MONEY ◆◆◆◆◆◆◆◆◆◆ 90%

*All this and it costs less than a CU night out.*

### EFFECTIVENESS ◆◆◆◆◆◆◆◆◆◆ 95%

*Quite simply the most stunning digitised pictures I have ever seen.*

### FLEXIBILITY ◆◆◆◆◆◆◆◆◆◆ 96%

*The extensive macros, the additional hardware support, the user configurable screens, the amazing...*

### INNOVATION ◆◆◆◆◆◆◆◆◆◆ 98%

*Perhaps MacroSystem should turn their talents to ending hunger, world peace or the space program.*

**Simply the best. No other digitiser comes close.**

**OVERALL 94%**



# AMIGA

# NEW LOW PRICES!

FROM SILICA SYSTEMS  
THE UK'S No1 AMIGA SPECIALISTS

## FREE! ZOOOL SOFTWARE PACK - FROM SILICA

ZOOOL is the software pack of the year. It includes:  
Zool, Transwrite, Pinball Dreams and Striker - Value £127.92.

All Amigas from Silica (excluding A600 Standalone and Amiga 4000) include a FREE ZOOOL pack as well as GFA Basic and Photon Paint II.

ZOOOL.....	£25.99
Platform Title of the year - 97% Amiga Comp - Nov '92	
TRANSWRITE.....	£49.95
Word Processor and Spell Checker	
PINBALL DREAMS.....	£25.99
Pinball Simulation - 94% AUJ - Sept '92	
STRIKER.....	£25.99
Soccer Simulation - 94% CU Amiga - June '92	
ZOOOL PACK: £127.92	
GFA BASIC v3.5.....	£50.00
Powerful Basic Programming Language	
PHOTON PAINT II.....	£89.95
Powerful Graphics Painting Package	
<b>TOTAL VALUE: £267.87</b>	

**PLUS!** GFA BASIC 3.5 Interpreter

**TOTAL VALUE: £267.87**

## AMIGA 500 PLUS CARTOON CLASSICS

SAVE £100! 2Mb VERSION + £30

INCLUDES BUILT-IN BATTERY BACKED CLOCK

FREE! PHOTON PAINT II

1 YEAR RETURN TO SILICA WARRANTY

**PACK INCLUDES:**

- 1Mb AMIGA 500 PLUS..... £299.99
- BUILT-IN 1Mb DRIVE..... -
- A520 TV MODULATOR..... -
- THE SIMPSONS..... £24.99
- CAPTAIN PLANET..... £25.99
- LEMMINGS..... £25.99
- DELUXE PAINT III..... £79.99

FREE FROM SILICA (See Top Left) £267.87

**TOTAL PACK VALUE: £724.82**  
LESS PACK SAVING: £525.82  
SILICA PRICE: £199.00

1Mb RAM	PREVIOUSLY £299	<b>£199</b>
	INC VAT - AMC 0592	
2Mb RAM	PREVIOUSLY £329	<b>£229</b>
	INC VAT - AMC 0592 + RAM 0593	

## AMIGA 600 STANDALONE

2Mb VERSION + £30

FREE! PHOTON PAINT II

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

We are pleased to offer the Amiga 600 with Photon Paint II, at a new low Silica price of only £199, a full £100 saving off the previous price.

**PACK INCLUDES:**

- 1Mb AMIGA 600..... £199.99
- BUILT-IN 1Mb DRIVE..... -
- BUILT-IN TV MODULATOR..... -

**PLUS! FREE FROM SILICA:**

- PHOTON PAINT II..... £89.95

**TOTAL PACK VALUE: £289.94**  
LESS PACK SAVING: £90.94  
SILICA PRICE: £199.00

1Mb RAM	PREVIOUSLY £299	<b>£199</b>
	INC VAT - AMC 0625	
2Mb RAM	PREVIOUSLY £329	<b>£229</b>
	INC VAT - AMC 0625 + RAM 0593	

## AMIGA 600 LEMMINGS PACK

2Mb VERSION + £30

FREE! PHOTON PAINT II

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

**PACK INCLUDES:**

- 1Mb AMIGA 600..... £199.99
- BUILT-IN 1Mb DRIVE..... -
- BUILT-IN TV MODULATOR..... -
- DELUXE PAINT III..... £79.99
- LEMMINGS..... £25.99

FREE FROM SILICA (See Top Left) £267.87

**TOTAL PACK VALUE: £573.84**  
LESS PACK SAVING: £344.84  
SILICA PRICE: £229.00

1Mb RAM	PREVIOUSLY £299	<b>£229</b>
	INC VAT - AMC 0666	
2Mb RAM	PREVIOUSLY £329	<b>£259</b>
	INC VAT - AMC 0666 + RAM 0593	

## AMIGA 600 WILD, WEIRD & WICKED

2Mb VERSION + £30

FREE! PHOTON PAINT II

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

**PACK INCLUDES:**

- 1Mb AMIGA 600..... £199.99
- BUILT-IN 1Mb DRIVE & TV MODULATOR..... -
- DELUXE PAINT III..... £79.99
- MICROPROSE GRAND PRIX..... £34.99
- SILLY PUTTY..... £25.99
- PUSH OVER..... £25.99

FREE FROM SILICA (See Top Left) £267.87

**TOTAL PACK VALUE: £634.82**  
LESS PACK SAVING: £405.82  
SILICA PRICE: £229.00

1Mb RAM	PREVIOUSLY £299	<b>£229</b>
	INC VAT - AMC 0649	
2Mb RAM	PREVIOUSLY £329	<b>£259</b>
	INC VAT - AMC 0649 + RAM 0593	

## AMIGA 600 HD EPIC + HARD DRIVE

2Mb VERSION + £30

FREE! PHOTON PAINT II

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

**PACK INCLUDES:**

- 1Mb AMIGA 600..... £199.99
- BUILT-IN 1Mb DRIVE & TV MODULATOR..... -
- HARD DISK..... £149.00
- EPIC - A 3D-R ADVENTURE..... £29.99
- HOME - ROLE PLAYING ADVENTURE..... £25.99
- WITCH - STOP THE SPREAD OF EVIL..... £19.99
- INTERNAL PURSUIT - POPULAR QUIZ..... £29.99

FREE FROM SILICA (See Top Left) £267.87

**TOTAL PACK VALUE: £722.82**  
LESS PACK SAVING: £423.82  
SILICA PRICE: £299.00

1Mb RAM	PREVIOUSLY £299	<b>£299</b>
20Mb HARD DRIVE		
1Mb RAM	PREVIOUSLY £299	<b>£349</b>
40Mb HARD DRIVE		

## AMIGA 1200 COMIC RELIEF

2Mb RAM BUILT-IN

FREE! PHOTON PAINT II

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

**PACK INCLUDES:**

- 68020c Processor
- 14.19MHz Clock Speed
- 32-bit Architecture
- 2Mb Chip RAM
- Amiga DOS v3.0
- AA Chip Set for Enhanced Graphics
- 16.8 Million Colours
- 256,000 Colours on Screen
- Built-in TV Modulator
- 1 x 32-Bit CPU/RAM Expansion Slot
- PCMCIA Smart Card Slot takes 512K, 1Mb or 4Mb PC Cards
- 96 Key Keyboard with Integral Numeric Keypad
- 2 1/2" Internal IDE Hard Drive Options - see column on right
- 1 Year On-site Warranty

FREE GIFTS FROM SILICA (See Top Left)

**NEW! AA CHIPSET**

**A1200 + HARD DISK**

2Mb RAM	RRP £429	<b>£399</b>
	INC VAT - AMC 1212	
2Mb RAM	RRP £429	<b>£599</b>
85Mb HARD DRIVE		
2Mb RAM	RRP £699	<b>£699</b>
127Mb HARD DRIVE		
2Mb RAM	RRP £849	<b>£849</b>
209Mb HARD DRIVE		

## AMIGA 1200 COMIC RELIEF + HARD DISK

OFFICIAL UPGRADE

FREE! PHOTON PAINT II

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

Silica is pleased to offer the Amiga 1200 Comic Relief Pack with your choice of hard disks (85Mb, 127Mb or 209Mb). These are legal upgrades approved by Commodore. Both the A1200 and Hard Disk are fully covered by Commodore's official 1 year on-site warranty with WANG. Look out for the special sticker to ensure that the upgraded A1200 you buy is an official version, which includes Commodore's full approval and 1 year on-site warranty.

**NEW! AA CHIPSET**

**A1200 + HARD DISK**

2Mb RAM	RRP £429	<b>£599</b>
	INC VAT - AMC 1205	
2Mb RAM	RRP £699	<b>£699</b>
127Mb HARD DRIVE		
2Mb RAM	RRP £849	<b>£849</b>
209Mb HARD DRIVE		

## AMIGA 1500 HOME ACCOUNTS

FREE! PHOTON PAINT II

1 YEAR RETURN TO SILICA WARRANTY

**PACK INCLUDES:**

- 1Mb AMIGA 1500..... £699.99
- 2 x 3 1/2" BUILT-IN 1Mb FLOPPY DRIVES..... -
- EXPANSION SLOTS..... -
- PC COMPATIBILITY..... -
- VIDEO SLOT..... -
- PUZZNIC..... £24.99
- TOKI..... £24.99
- ELF..... £24.99
- HOME ACCOUNTS..... £29.99
- DELUXE PAINT III..... £79.99
- AMIGA VISION..... £111.63

FREE FROM SILICA (See Top Left) £267.87

**TOTAL PACK VALUE: £1534.39**  
LESS PACK SAVING: £1135.39  
SILICA PRICE: £399.00

1Mb RAM	RRP £699	<b>£399</b>
	INC VAT - AMC 1500	

## AMIGA 4000 SPECIFICATIONS

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

**RAM UPGRADES**

RAM	4Mb	6Mb	10Mb	14Mb	18Mb
2Mb	£100	£150	£300	£450	£600
4Mb	-	£50	£200	£350	£500
6Mb	-	-	£150	£300	£450

**OPEN ARCHITECTURE:** The A4000 has been designed for maximum flexibility providing plenty of room for memory & peripheral expansion.

- 4x16/32-BIT Z8000 III SLOTS
- 3xPC-AT SLOTS
- 1x24-bit VIDEO SLOT
- POWER: 1.7Wb 3 1/2" FLOPPY DRIVE

**NEW! AA CHIPSET**

## AMIGA 4000 CONFIGURATIONS

PLUS! FREE FROM SILICA

- Amiga Vision
- Photon Paint II & GFA Basic

25MHz 68030EC	
2Mb RAM	RRP £1099
4Mb RAM	RRP £1199
4Mb RAM	RRP £1299
4Mb RAM	RRP £1399
4Mb RAM	RRP £1699

**25MHz 68040**

6Mb RAM	RRP £2099
6Mb RAM	RRP £2199
6Mb RAM	RRP £2299
6Mb RAM	RRP £2399
6Mb RAM	RRP £2699

ALL PRICES ABOVE INCLUDE VAT & FREE FITTING AT TIME OF AMIGA 4000 PURCHASE. IF UPGRADE IS NOT DONE AT TIME OF PURCHASE, A FITTING CHARGE OF £M 35 (PLUS £600) IS PAYABLE.

## CDTV ADD-ON FOR A500 or A500 PLUS

FREE! PHOTON PAINT II

HALF PRICE CDTV RRP £349

**COMMODORE APPROVED**

Silica Systems have been a fully authorised Amiga dealer ever since the product range was launched. As part of our service, we can upgrade Amiga 600 or 1200's with hard drives, for new or existing owners. In both cases, Commodore's official on-site warranty is unaffected. Silica offer other upgrades too and provide a comprehensive repair service for A500 and A500-plus computers.

**UPGRADES & REPAIRS**

- Latest test equipment
- 20 trained technicians
- 1,000s of parts in stock
- FAST, 48 hour service
- We can collect (E5-vat)
- FREE return courier
- All work guaranteed

CALL FOR A PRICE LIST and details of all upgrades available

ALL PRICES INCLUDE VAT - DELIVERY IS FREE OF CHARGE IN THE UK MAINLAND

## SILICA SYSTEMS - THE AMIGA SPECIALISTS

Before you decide when to buy your new Amiga computer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after buying your Amiga, when you may require additional peripherals or software, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years, we are Amiga specialists and are a Commodore approved dealer. With our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

- BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts are available. Tel: 081-308 0888.
- SHOWROOMS:** We have demonstration and training facilities at all our stores.
- THE FULL STOCK RANGE:** All of your Amiga requirements are available from one supplier.
- FREE CATALOGUES:** Will be mailed to you, with special reduced price Amiga offers, as well as details on all Amiga software and peripherals.
- PAYMENT:** We accept most major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).

**COMMODORE APPROVED UPGRADES:** Official Hard Drive upgrades with WANG on-site warranty.

**FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.

**TECHNICAL SUPPORT HELPLINE:** A team of Amiga technical experts will be at your service.

**PRICE MATCH:** We match competitors on a "Same product - Same price" basis.

**ESTABLISHED 14 YEARS:** We have a proven track record in professional computer sales.

**£12 MILLION TURNOVER (with 60 staff):** We are solid, reliable and profitable.

**SILICA SYSTEMS**

**HOT LINE 081-309 1111**

**MAIL ORDER:** 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-309 1111  
Order Lines Open: Mon-Sat 9.00am-6.00pm No Late Night Opening Fax No: 081-308 0608

**LONDON SHOP:** 52 Tottenham Court Road, London, W1P 0BA Tel: 071-580 4000  
Opening Hours: Mon-Sat 9.30am-6.00pm No Late Night Opening Fax No: 071-323 4737

**LONDON SHOP:** Selfridges (Basement Area), Oxford Street, London, W1A 1AB Tel: 071-629 1234  
Opening Hours: Mon-Sat 9.30am-7.00pm Late Night: Thursday - 8pm Extension: 3914

**SIDCUP SHOP:** 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-302 8811  
Opening Hours: Mon-Sat 9.00am-7.00pm Late Night: Friday - 7pm Fax No: 081-309 0017

**ESSEX SHOP:** Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA Tel: 0702 468039  
Opening Hours: Mon-Fri 10.00am-5.30pm (Sat 9.00am-6.00pm) Late Night: Thursday - 7pm Fax No: 0702 468039

To: Silica Systems, CMUSR-0993-104, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

**PLEASE SEND A 64 PAGE AMIGA COLOUR CATALOGUE**

Mr/Mrs/Miss/Ms: ..... Initials: ..... Surname: .....

Company Name (if applicable): .....

Address: .....

Postcode: .....

Tel (Home): ..... Tel (Work): .....

Which computer(s), if any, do you own? .....

104F

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.



Scanning in black and white is reasonable enough. See how the detail towards the rear of this rubbish truck is picked out perfectly.



Curiously the software has elected to reproduce the image twice in this scan.

# Migraph Colour Scanner

Is this the cheapest way to get colour graphics onto your screen? John Kennedy scans something entirely new – an 18-bit multi-colour scanner at a fraction of the price of the flatbeds.

**H**andy scanners may all look like devices for removing unwanted body hair, but they still represent the cheapest and easiest way of getting graphics out of the analogue real world and into a digital computer.

Of course, monochrome scanners have been with us for some time – steadily decreasing in price whilst simultaneously increasing in resolution. Scanners have even started to appear which feature true greyscale options, bypassing those dreadful dithering approaches and so leading to near-photographic results.

But to be honest, what we all really want is a way of capturing colour with the same ease, quality and above all cheapness offered by handy scanners.

## JARGON BUSTERS

- **DPI** – Dots per inch, the more DPI, the higher the detail in the scanned image.
- **Flatbed** – Scanners which look like photocopiers and automatically scan the image. Usually work to very high resolutions (800DPI) and cost a bomb.
- **HAM6** – The quirky 'hold-and-modify' method by which all Amigas can display up to 4096 different colours on-screen.
- **HAM8** – The even quirkier way in which newer Amigas (A1200, A4000) can display up to 262,144 colours.

**ENTER THE DRAG**

At last the waiting is over! The first colour scanner to make it through the doors of CU Towers comes from the long-time producers of scanners, Migraph. Even better, it doesn't simply stop at colour; Migraph have gone so far as to equip the Colorburst scanner with a remarkable 18-bit option: that's 262,144 colours to you, mate.

In an attempt to make it stand out from the crowd of beige, the Migraph scanner is available in any colour you like, as long as it's black. Construction is on the fair to middling side of things, with rather indistinct switches to select scanning modes and resolution options. Apart from the novel colour, there is nothing external to suggest that this is no ordinary two-tone armpit-shaver, er... scanner.

The scanner is connected to the Amiga via a match-box sized interface connected to the parallel port. No through port is provided, and apparently switching devices won't work either. However, as a form of compensation Migraph say that the interface can be inserted and removed without first disconnecting the Amiga's power... a very strange recommendation.

**SOFTWARE**

The software which drives the scanner is a very user friendly affair. All the option setting

screens and requestors are in standard-issue Amiga pseudo-3D grey, and it only takes one peek at the manual before you know your way around.

In contrast to the software which comes with the better monochrome scanners, Migraph have decided to concentrate more on the scanning options rather than post-effects. You won't find any editing features, no picture rotation or pixel editing – the nearest is the ability to select which part of the scanned image you want to save as an IFF.

This isn't really a problem – if you are using 24-



There are some nasty edging effects evident. The use of a scanning tray may reduce the problem somewhat.



# Made for budding *Nigels*...



## The **Logic3 FreeWheel**

Can you imagine Nigel Mansell using a joystick to control his car around a high-speed track? Probably not. That's why we came up with the FreeWheel. Just plug it into your computer joystick port and experience the real sensation of driving!

- \* Suitable for all types of driving and flying games
- \* Uses unique angle-sensitive switches
- \* Extra-long connector cable.
- \* Ideal companion for the QJ Footpedal Controller (SRP £24.99)
- \* Does not need to be mounted or fixed to a surface
- \* Following versions available now:—

*FW 111 - Digital Freewheel for Amiga/ST/C64 etc - £29.99 inc VAT*  
*FW 123 - Analog Freewheel for Amiga - £39.99 inc VAT*  
*FW 223 - Analog Freewheel for IBM PC - £39.99 inc VAT*  
*FW 311 - Digital Freewheel for Sega Megadrive - available Autumn 93*  
*FW 411 - Digital Freewheel for Super Nintendo - available Autumn 93*



Another winning product from . . .

**SPECTRA**  
**VIDEO**  
TEL. 081-902 2211

AVAILABLE FROM ALL GOOD COMPUTER STOCKISTS

ALL TRADE MARKS AND BRAND NAMES ARE ACKNOWLEDGED AS THE PROPERTY OF THEIR RESPECTIVE OWNERS



VOTED BEST DEALER  
CU AMIGA JAN 93

## FIRST COMPUTER CENTRE OPEN 7 DAYS A WEEK

OPEN MON - SAT ..... 9.30AM-5.30PM  
SUNDAY OPENING..... 11.00AM-3.00PM  
THURSDAY NIGHT LATE... 9.30AM-7.30PM  
CLOSED BANK HOLIDAYS

AUTHORISED DEALERS FOR  
ACORN, CITIZEN,  
COMMODORE, DIGITA,  
PACE, PRIMA, SEGA, ROMBO,  
STAR, SUPRA,

**FREE DELIVERY!**

## HOW TO ORDER

Order by telephone quoting your credit card number. If paying by cheque please make payable to the:

"FIRST COMPUTER CENTRE."

In any correspondence please quote a phone number & post code. Allow 5 working days for cheque clearance

● **Low interest credit available!**

**Please phone for details**

- All prices include VAT & UK mainland Delivery
- All hardware/computers are genuine UK spec.
- Free Standard Delivery
- Guaranteed 2 to 3 day (week days) Delivery...£2.50
- Guaranteed Next Day (week days) Delivery...£4.90
- Open seven days a week
- 1200 sq. ft. showroom
- Free large car park
- Overseas orders welcome
- Full repair service
- Educational orders welcome

## SALES & TECHNICAL

24 HOUR MAIL ORDER  
SERVICE 6 LINES!

**0532 319444**

FAX: 0532 319191

FOR DESPATCH & RETURNS  
ENQUIRES TEL. 0532 637988

SHOWROOM ADDRESS:  
DEPT. CU, UNIT 3,  
ARMLEY PARK COURT,  
OFF CECIL STREET,  
STANNINGLEY ROAD,  
LEEDS, LS12 2AE.

Prices are subject to change  
without notice. E&OE.



NEW LOW  
PRICE!!

**AMIGA 1200 £359.99!!!**

32 bit technology based on the 68020 chip running at 14.2 Mhz, AGA custom chipset. The 1200 represents the future of the Amiga. Buy it!! Comes with WB3.

**The New Amiga 4000/030**

Based on the 68030 processor. Complete with hard drive & 2Mb of RAM (or 4Mb RAM for 120Mb versions) & WB3

**only £949.99** for 80Mb version  
**or £1169.99** for 120Mb version

**Amiga 4000/040 from £1999.99**

**Cartoon Classics Pack.....£194.99**  
with Lemmings, Captain Planet, The Simpsons & D-Paint 3  
**AMIGA 500 Deluxe only £239.99**  
with built in ROM sharer 2.04/1.3

**AMIGA 600 Basepack now with  
X OUT game (LIMITED OFFER)  
only £194.99!**

**AMIGA 600 20HD The Epic pack 20  
Mb Hard drive, Epic, Rome, Myth, & Trivial  
Pursuit, Dictionary, Language Lab & D. Paint 3  
only £289.99** (Inc On Site Maintenance)

**The A600 Wild, Weird & Wicked**  
inc Micro Prose Grand Prix, Deluxe Paint 3, Putty & Pushover  
**Plus "X OUT" shoot em up  
only £219.99**

**A600 DELUXE ..... ONLY £245.99**

**A600 20HD DELUXE.... ONLY £339.99**

inc. ROM sharer with 1.3 & 2.05 ROM's making incompatibility a thing of the past. The A600 HD Deluxe comes with a Built in 20 Mb hard drive  
**Just add 32.99 for a 2 Mb 600 Deluxe!!**

## PRIMA A1200 REAL TIME CLOCK

at last now you can date and time stamp your files  
Fits directly onto the motherboard with no soldering.

**only £17.99!**

**A600 & 1200's with built  
in Hard Drive plus HD kits  
for A600/1200's**

**Add £17.99 for Real Time Clock!**

	HD KIT	A600	A1200
20Mb.....	*£89.99	N/A	£514.99
60Mb.....	*£179.99	£454.99	£554.99
80Mb.....	*£195.99	£479.99	£579.99
127Mb..	*£269.99	£569.99	£669.99
210Mb..	*£369.99	£664.99	£764.99

\*Just Add £15.00 for fitting

All Amiga's come with Workbench, mouse & 12 month warranty. The A600's, A1200 & A4000 come with 12 months on site warranty All 1200/600's also come with a built in integral hard disk option.

## THE AMAZING ZOOL PACK!

- ZOOL (97% Amiga Computing, Nov 92)
- STRIKER (94% CU Amiga, June 92),
- PINBALL DREAMS (94% AUI, Sept 92)
- TRANSWRITE word processor

**only £29.99**

**only £19.99 with any AMIGA!**

## CDTV MULTI MEDIA PACK

Complete with CDTV, Keyboard, Mouse,  
disc drive Fred Fish & Workbench 1.3

**now only £349.99**

## CD Rom Amiga A570

Turns your Amiga 500 into a CDTV. Includes  
Fred Fish, CDPD disk & Sim City

**now only £147.99!**

CDTV 65 Mb Hard Drive .....£339.99

CDTV keyboard.....£49.99

CDTV mouse/joystick interface.....£45.99

## PRINTERS

All our printers are UK spec.



All our printers come with ribbon/toner,  
printer drivers (if available), paper & cables!!

## CANON

**NEW! Canon BJ10sx.....£224.99**

Laser quality output. Larger buffer than the  
StarSJ48Canon/Starbubblejet cartridges.....£17.99

**NEW! Canon BJ200.....£329.99**

wide carriage version of above

**NEW! Canon BJ230.....£379.99**

3 page a min speed, 360 dpi, small footprint & 80  
page sheetfeeder

**Canon BJ300.....£419.99**

Desktop bubble jet with laser quality

**Canon BJ330.....£464.99**

Wide carriage version of the BJ300

**BJ10 Autosheetfeeder...£52.99**

## CITIZEN NEW LOW PRICES!

Citizen printers have a 2 year guarantee

**NEW! Citizen Swift 90 Col. £175.99**

Excellent value 9 pin colour. Highly recommended

**NEW! Swift 240 Colour....£272.99**

24 pin, 240cps draft, 10 fonts, quiet mode, 240cps.

**NEW! Swift 200 Colour.£224.99**

Same out put as the 240 but with less facilities

**Automatic Sheet feeder..£79.99**

## FUJITSU

12 month onsite included except

DL-1150 (12 month B T Base)

**Fujitsu DL-1150 Colour.£274.99**

24 pin, 10 fonts, 200 CPS

**Fujitsu Breeze 100.....£219.99**

ink jet, draft & LQ mode, BJ10EX beater

**Fujitsu Breeze 200 ink jet.....£309.99**

## HEWLETT PACKARD

**HP Deskjet Portable..only £369.99**

**New! HP510 mono.now £319.99**

**HP 500 Colour.....now £419.99**

**HP 550 Colour.....now £644.99**

4 times faster than the HP500C!!

**HP500 mono cartridges.....£14.99**

**Double life 500 cartridges.....£24.99**

All HP printers come with a 3 year warranty

## STAR

**StarLC20.....£137.99**

180 cps draft, 45 cps NLQ, quiet mode and multi  
fonts, push button operation.

**StarLC100 colour.....£159.99**

9 pin colour, 8 fonts, 180 cps draft, 45 cps NLQ

**StarLC200 colour.....£195.99**

9 pin colour, 8 fonts, 225 cps draft, 45 cps NLQ, A4  
landscape printing.

**NEW! StarLC24-20 MKII.....£229.99**

24 pin quality, 210 cps draft, 67 cps LQ, 39K buffer  
expandable to 48K, 10 fonts and quiet mode.

**Star LC24-200 colour.£269.99**

Colour version with 30K buffer expandable to 62K

**Star SJ48 Bubble jet....£219.99**

Laser quality, ultra quiet, Epson compatible & portable

**Star SJ48 Autosheet feeder...£49.99**

## Laser Printers

on-site warranty standard

**Fujitsu VM600 Laser.....£679.99**

6 pages per minute, HP emulation, multi font, 300Dpi

**HP Laserjet 4L.....£599.99**

1Mb RAM, 4 ppm, small footprint

**OKI 400e.....£514.99**

4 page laser, mult font, 512k memory, HP emulation

**Panasonic KXP-4410.....£534.99**

5 page laser, mult font, 512k memory, HP emulation,300Dpi

**Ricoh PCL5.....£809.99**

400 Dpi, 2Mb RAM, 5Page per minute

add just £114.99 for 2 Mb of extra RAM

**Star Laserjet LC5.....£609.99**

5 page laser, HP emulation, multi font, 300Dpi

## MONITORS

All our monitors are UK spec. All monitors  
come complete with a free Amiga lead

**PHILIPS CM8833 MK2 Colour**  
Colour stereo monitor. 600\*285 line resolution, green  
screen facility, one years on site maintenance.

now with Lotus Turbo Esprit!!  
**now only £199.99 UK Spec.**

**PHILIPS TV Tuner for the 8833.£64.99**

**Commodore 1084ST Colour**  
features built in tilt & swivel stand this new colour  
monitor from Commodore is outstanding value  
**only £199.99**

**MITAC SVGA .28 dp Colour  
monitor with overscan**  
High quality Super VGA resolution. Includes overscan  
facility, .28 dot pitch.& tilt/swivel stand.  
**only £249.99**

**PHILIPS BRILLIANCE**  
**7CM3209 SVGA .28 dp only £309.99**

**NEW! COMMODORE 1940**  
Dualsync, .39 dpi **only £284.99**

**NEW! COMMODORE 1942**  
Dualsync, .28 dpi **only £379.99**

**COMMODORE 1960 multisync**  
.28 dpi **only £379.99**

**MICROVITEC MULTISYNCS**  
A 3 year warranty comes as standard  
14".....£409.99  
20".....£1149.99

**Goldstar TV/Monitor**  
**only £189.99**

TILT & SWIVEL STANDS.....£11.99

14" MONITOR COVERS.....£5.99

## SUPRA MODEMS

**The Supra-Fax Modem**  
**V.32 bis (14400 baud !!!)**

Allows you to send and receive fax messages. This new  
modem from Supra has full 14400 baud capability.  
Spec includes V.32bis, V.32, V.22bis, V22, V21, MNP2-  
5, V.42, V42bis, Class 1 & 2 commands, 9600/14400  
Group 3 Fax. Includes free comms software & modem  
cable

**only £259.99**  
including heavy duty PSU

**Supra Fax Plus**

With the ability to send faxes! Even faster than the  
standard 2400 from Supra with auto dial & auto receive.  
Hayes comp. V22b, V42 Bis, MNP 2-5 & auto adjust to  
maximise transmission speeds. Includes free modem  
cable & comms s/w!!

**only £139.99**

**GP FAX SOFTWARE only £39.99**  
if bought with modem

**Supra 2400**

Get on line using this great value fast modem with auto  
dial & receive. 2400 baud Hayes comp, V22 BIS. Inc  
modem cable & comms s/w!!

**only £74.99**

All Supra Modems come with a 5 year warranty!!  
Supra modems are not BABT approved

## US ROBOTICS

**Sportster 14400 FAX Modem ..... £339.99**

**Courier HST 16.8k Dual Standard.... £503.99**

5 year warranty and FULLY BABT Approved !!

## PACE MODEMS

**MicroLin V22b FAX ..... £216.99**

**MicroLin V32b FAX ..... £449.99**

5 year warranty and FULLY BABT Approved !!

**PRIMA A500 & A600 RAM**

3 YEAR WARRANTY!!

A500P A600  
 Unpopulated.....only £16.99...£23.99  
 Populated to 512K...only £19.99...£28.99  
 Populated to 1 Mb...only £28.99...£33.99  
 2 Mb A600 OR A1200 RAM card...£112.99  
 4 Mb A600 OR A1200 RAM card...£169.99  
**AMIGA A500 512K RAM by PRIMA**  
 for the original 1.2/1.3 AMIGA...only £13.99

**32 BIT RAM (for A4000 etc)**

1 Mb SIMM.....£35.99  
 2 Mb SIMM.....£74.99  
 4 Mb SIMM.....£129.99  
 8 Mb SIMM (not for use on 4000).....£269.99

**RAM & CUSTOM CHIPS**

Motorola 68882 (25Mhz).....£69.99  
 Motorola 68882 (33Mhz).....£79.99  
 Motorola 68882 (40Mhz).....£POA  
 Motorola 68882 (50Mhz).....£157.99  
 (for Microbotics boards inc crystal chip)  
 1mb by 8/9 SIMMS (3 chip) per 1 Mb £29.99  
 4 Mb by 9 SIMMS.....per 4 Mb £124.99  
 1 Mb by 4 DRAMS.....per 1 Mb £42.99  
 1 Mb by 4 ZIPS.....per 1 Mb £39.99  
 256 by 4 DRAM (DILs)  
 4+ (512K).....now only £3.99  
 8+ (1Mb).....now only £3.94  
 16+ (2Mb).....now only £3.89  
 Kickstart 1.3.....£17.99  
 Kickstart 2.04.....£24.99  
 Fatter Agnes 8372A.....£25.99  
 Super Denise.....£16.99  
 6571-0326 Keyboard controller...£13.99  
 CIA 8520A I/O controller.....£7.99

**MICROBOTICS RAM**

**The MBX1200Z CO-PROCESSOR & RAM BOARD for the A1200**

Realise the full potential of your A1200 with this trapdoor expansion. inc real time clock  
 68881 14MHZ.....£119.99  
 68882 25MHZ.....£169.99  
 68882 50MHZ.....£249.99  
 1mb 32 bit fast RAM.....£35.99  
 2mb 32 bit fast RAM.....£97.99  
 4mb 32 bit fast RAM.....£142.99  
 The RAM boards can only work with the use of the Co-Pro board

**SUPRA RAM**

Simply the best! Fits onto the side expansion port. Auto configures with no software patching.

When 256\*4 ZIPS are used, the Supra RAM can only be populated up to 2 Mb without replacing with 1 Mb by 4 ZIPS.

8Mb pop to 1Mb.....£119.99  
 8Mb pop to 2 Mb (256\*4zips).....£144.99  
 8Mb pop to 2 Mb (1Mb\*4 zips).....£159.99  
 8Mb pop to 4 Mb.....£214.99  
 8Mb pop to 8 Mb.....£319.99  
 8Mb pop to 2 Mb for 2000/1500 range...£149.99

**GVP GVP HARD DRIVES**

**AMIGA A500 HARD DRIVES**

GVP Series II HD8+ 42Mb.....only £247.99  
 GVP Series II HD8+ 80Mb.....only £347.99  
 GVP Series II HD8+ 120Mb.....only £397.99

**A500 GVP Combo's**

A530 Combo 40MHZ/42Mb HD...only £475.99  
 A530 Combo 40MHZ/80Mb HD...only £569.99  
 A530 Combo 40MHZ/120Mb HD...only £665.99  
 A530 Combo 40MHZ/213Mb HD...only £759.99  
 68882 Co-Processor Kit for A530...only £214.99  
 32 bit 60ns 1Mb SIMM for Accelerator...only £64.99  
 32 bit 60ns 4Mb SIMM for Accelerator...only £179.99

**1500/2000 Hard Drives**

Impact Series II HC8+ with 42Mb HD...only £289.99  
 Impact Series II HC8+ with 80Mb HD...only £339.99  
 Impact Series II HC8+ with 120Mb HD...only £409.99

All GVP products come with a full 2 year warranty

**POWER SCANNER V3**

With the latest version 3 software for bright & sharp grey scale performance. Flexible scanned image display manipulation options, plus Clean up, embolden, resize & flip.

only £114.99 on demo  
 Colour version only £229.99  
**EPSON GS6500 COLOUR FLATBED**  
 only £799.99 phone for details & demo

**MICE & TRACKERBALLS**

**GOLDEN IMAGE MEGA MOUSE**  
 90% rating by reviewers. Our best selling mouse  
 £12.99  
**DATALUX CLEAR MOUSE**  
 High quality clear 2 button mouse  
 £19.99  
**Zydec Trackball**  
 £29.99  
**Golden Image Trackball**  
 £37.99  
**ZYDEC Trackball**  
 £29.99

**DISK DRIVES**

**Prima 3.5" only £56.99**  
 1 meg high quality external drive at a great low price.  
**Roclite 3.5" only £62.99**  
 super slim Roclite. Best review for disk drives in Amiga Format. Now with built in virus checker and anti click device!  
**Cumana 3.5" only £57.99**  
 1 meg external drive. The best name in disc drives now at a great price.

**OPAL VISION**

24 bit graphics card & video system for the 1500 2000/3000/4000. Includes software bundle  
 only £619.99 with Imagine 2!

**GENLOCKS**

**GVP Genlock.....only £297.99**  
 features professional SVHS output  
**Rocgen Plus.....only £134.99**  
 Includes dual control for overlay and keyhole effects, extra RGB pass thru  
**Rendale 8802 FMC..only £169.99**

**ROCGEN ROCKEY**

For creating special effects in video production with genlocks.....only £269.99

**PRIMA ROM SHARERS**

This high quality ROM sharer features a flexible ribbon connection so that it can be positioned anywhere within your A500 Plus or A600. Full 2 year replacement warranty  
 now only £19.99 or £27.99 for keyboard switchable version

**EMULATORS**

**COMMODORE 386 25SX..£159.99**  
 This is a PC 386-25SX Bridgeboard running at 25 MHz  
**EMPLANT SYSTEM NEW!**  
 Multi-System emulation. Shipped with MAC II/Hx/IIcx. (MAC IIsc/IIQuadra, PC 386/486, Mega ST, Falcon, C64, Sega, Nintendo to follow) A1500, 2000, 3000, 4000 (1200 soon).....from £249.99

**ROCHARD DRIVES**

**ROCTEC A500 CONTROLLER CARD**  
 Very similar in style to the GVP HD8+ but without a hard drive so you can fit your own. Expands to 8Mb of RAM using SIMMS.....£149.99  
**ROCTEC 42Mb.....£219.99**  
**ROCTEC 80Mb.....£309.99**  
**ROCTEC 120Mb.....£369.99**  
**ROCTEC ROCMATE.....£99.99**

**ROMBO DIGITISERS**

**New! VIDI 12 Real Time.£138.99**  
 Real time colour digitizing from any video source. full AGA support  
**New! VIDI 24 Real Time.£229.99**  
 24 bit quality real time colour digitizing from any video source. Full AGA support  
**New! VIDI 12 AGA.....£74.99**  
 Fully support for AGA chipset Colour images captured in less than a second, mono images in real time with any video source. Multitasking s/w, cut & paste.

**VIDI 12 AGA with built in Megamix Master....only £98.99**  
**TAKE 2.....£37.99**  
 Features include load and save from D. Paint animations and IFF files. Supports HAM graphics.  
**Megamix Master.....£29.99**  
 8 bit, high spec. sampler. Special effects include echo that can be added in real time, fully multitasking & easy to use.

**ACCELERATORS**

**MICROBOTICS**  
 New M1230 for A1200 with up to 128 Mb fast RAM!  
**M1230 XA 40Mhz, 0Mb.....£264.99**  
**M1230 XA 40Mhz, 2Mb.....£339.99**  
**M1230 XA 40Mhz, 4Mb.....£419.99**  
**M1230 XA 40Mhz, 8Mb.....£549.99**  
**M1230 XA 50Mhz, 0Mb.....£339.99**  
**M1230 XA 50Mhz 2Mb.....£419.99**  
**M1230 XA 50Mhz, 4Mb.....£489.99**  
**M1230 XA 40Mhz 8Mb.....£629.99**

**GVP**  
**A1230/0Mb RAM for A1200 only £284.99**  
**A1230/1Mb RAM for A1200 only £384.99**  
**1500/2000 G-FORCE 030-25MHz with 4Mb 32bit RAM.....only £479.99**  
**G-Force 030-40MHz with 4Mb 32 bit RAM only £729.99**  
**NEW! SUPRA**  
 for the A500/A500+ and A1500/2000  
 28 Mhz, uses A500 side port so there is no internal fitting  
 only £129.99!

**ACCESSORIES**

Real Time A1200 internal clock module.....only £17.99  
 Mouse/joystick manual port switcher.....only £13.99  
 Computer Video Scart Switch.....only £19.99  
 2/3/4 way Parallel port sharers £POA  
 Amiga Sound Enhancer/Plus by Omega Projects. Hear the Amiga's sound like you've never heard it before! ...only £36.99  
**QUALITY MOUSE MATS.....£3.99**  
**20 CAPACITY DISK BOX.....£2.99**  
**40 CAP LOCKABLE DISK BOX.....£4.99**  
**100 CAP LOCKABLE DISK BOX.....£6.99**  
**\*90 CAP STACKABLE BANX BOX.....£9.99**  
**\*150 CAP STACKABLE POSSO BOX.....£16.99**  
 \*add £3.00 delivery if purchasing just one Posso or Banx box. Free delivery when purchased with other product or when buying 2 or more.  
**AMIGA A500 DUST COVER.....£3.99**  
**AMIGA 600 COVER.....£2.99**  
**14" MONITOR DUSTCOVER.....£6.99**  
**12" MONITOR DUSTCOVER.....£5.99**  
**AMIGA TO SCART CABLES.....£9.99**  
**STD 1.8 METRE AMIGA PRINTER LEAD.....£4.99**  
**MODEM AND NULL MODEM CABLES.....£9.99**  
**AMIGA CONTROL STATIONS**  
**A500 or 1200 VERSION.....£39.99**  
**A600 VERSION.....£31.99**  
**PRINTER STATION.....£28.99**

**DISKS**

All disks are 100% error free guaranteed  
 New High density 3.5 inch bulk and Fuji branded  
 Please phone for best prices!  

QTY	3.5" DD/DS Bulk	OR	FUJI DD/DS BRANDED
10	£4.99		£6.99
30	£14.99		£17.99
50	£21.99		£28.99
100	£39.99		£54.99
200	£73.99		£99.99
500	£169.99		£POA
1000	£339.99		£POA

 Branded disks come complete with labels  
 Disk Labels.....500...now only £6.99  
 Disk Labels..1000...now only £9.99

**SOFTWARE**

**BUSINESS**  
 Gold Disk Office U.K.spec .....£45.99  
 Home Accounts 2.....£37.99  
 Maxi Plan 4.....£29.99  
 Mini Office.....£38.99  
**PERSONAL FINANCE MANAGER Plus**  
 only £29.99  
**PLATINUM WORKS...only £29.99!!**  
 Excellent integrated business/office pack, with powerful 123 comp spreadsheet, word processor & database

**EDUCATIONAL**  
 6 Pack compendium.....now only £25.99  
 inc. Kids Type, Weather Watcher, Calender Quiz, Words & Numbers, Game Set & Match + What is it? Where is it?  
 Childs Play talking word processor...£24.99  
 Gallery Multi-Media Dbase.....£44.99

**MISCELLANEOUS**  
 A Talk comms Software.....£9.99  
 Distant Suns new version!.....£49.99  
 GB Route Plus.....£45.99  
 GP FAX Software.....£39.99

**MUSIC/SOUND**  
 Audio Engineer.....£73.99  
 Audio Engineer Plus V2.....£243.99  
 Bars & Pipes Professional.....£259.99  
 Clarity 16 sampler.....£105.99  
 Deluxe Music Construction Set.....£49.99  
 Pro Midi Interface by Microdeal.....£24.99  
 Stereo Master.....£29.99  
 SUPER JAM.....£79.99  
 Techno Sound Turbo.....£28.99

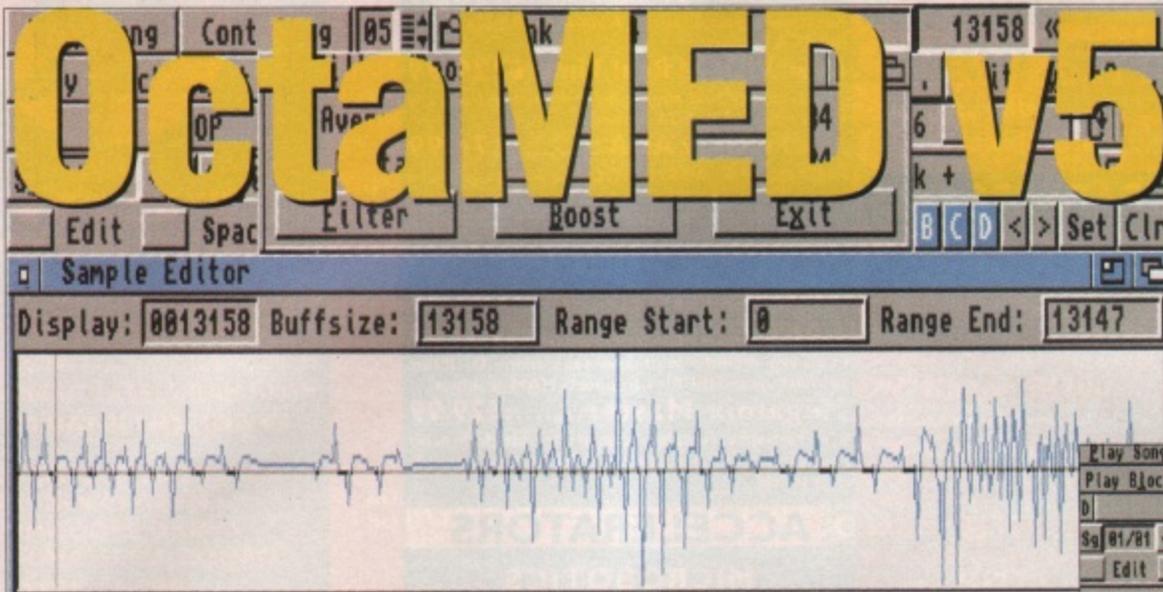
**PROGRAMMING**  
 Amos Creator.....£34.99  
 Amos Compiler.....£21.99  
 Amos 3D.....£25.99  
 Amos Professional.....£47.99  
 Amos Professional Compiler NEW!.....£47.99  
 DEVPAC 3.....£50.99  
 Easy AMOS.....£24.99  
 SAS C Language Version 6.....£219.99

**UTILITIES**  
 AMIBACK.....£44.99  
 AMIBACK TOOLS NEW!.....£44.99  
 AMIBACK PLUS TOOLS BUNDLE NEW!...£74.99  
**AMIGA RELEASE 2.04 UPGRADE KIT**  
 Complete with: Kickstart 2.04 CHIP, Workbench 2.04, Install, Fonts & Extras disks full manual set  
 limited offer! only £49.99

AMIGA Release 2.1 software upgrade.....£49.99  
 Cross Dos V5.....£32.99  
 Directory Opus 4.....£49.99  
 Giga Mem.....£49.99  
**QUARTERBACK V5 NEW!.now only £40.99**  
 Latest version of this Fast & Famous hard disk backup utility.  
 Quarterback Tools.....now only £45.99  
 Xcopy Pro inc. hardware.....£33.99

**VIDEO AND GRAPHICS**  
 37 Compugraphic fonts Vol 1, 2, or 3 by GT...only £9.99  
 Adorage (creates special video effects).....£61.99  
 Art Department Pro 2.23.....only £145.99  
 ART EXPRESSIONS.....By Soft Logic £145.99  
**BRILLIANCE NEW!** Pro. paint and animation...£144.99  
**CALIGARI 24 NEW!** 3D Design and animation...£239.99  
 Deluxe Paint 4 AGA NEW!.....£66.99  
**EXPERT DRAW.....only £49.99**  
**EXPERT 4D JR.....only £37.99**  
 Flexidump printer utility.....£31.99  
 Imagine V2.....£119.99  
 Make Path for Vista.....£26.99  
 Morph Plus.....£147.99  
 Personal Paint NEW!.....£45.99  
 Real 3D Classic.....£77.99  
 Real 3D V2.....£365.99  
 Scala 1.3.....£72.99  
 TRUE PRINT/24.....£49.99  
**VIDEO DIRECTOR.....£115.99**  
**VIDEO MASTER.....£49.99**  
 Vista Pro 3 (2 Mb required) NEW!.....£50.99

**WORD PROCESSING/DTP**  
**FINAL COPY 2 (UK) RELEASE 2...only £77.99**  
 built in outline fonts, full graphics import (IFF and HAM), UK thesaurus, spelling checker & much more.  
**KINDWORDS V3.....only £29.99**  
**PENPAL 1.4.....only £38.99**  
 Best selling feature packed word publisher with database.  
**PAGESTREAM 2.2 U.K. version only £59.99**  
 Special price. Limited period Only!  
**PAGESETTER 3 NEW!.....£42.99**  
 Personal Write NEW!.....Postscript compatible...£17.99  
 Hot Links.....£48.99  
**PRO PAGE PROFESSIONAL V4 NEW!...£109.99**  
 Protext 4.3 W/P.....now only £39.99  
 Prowrite 3.3 NEW!.....£38.99  
**THE PUBLISHER DTP NEW PRICE!...£29.99**  
**TYPESMITH, FONT EDITOR NEW!.....£99.99**



It started as a simple **Soundtracker** clone, but soon grew into something far bigger. Tony Horgan makes some noise with **Version 5**.



OctaMED V5 now sports standard menus and windows, with a truckload of other improvements.

As you can see, the biggest difference with the latest version of *OctaMED* is the user interface, and the fact that it needs Kickstart 2.04 or higher. The old *OctaMED* system was starting to get a bit untidy, with lots of little boxes all over the place, and no particular form to the whole thing. All of that has gone out of the window, in favour of a far more approachable system of menus and standard windows. If all that sounds a bit daunting, don't worry, because all the old keyboard shortcuts are still there, and the top panel has retained most of the important buttons.

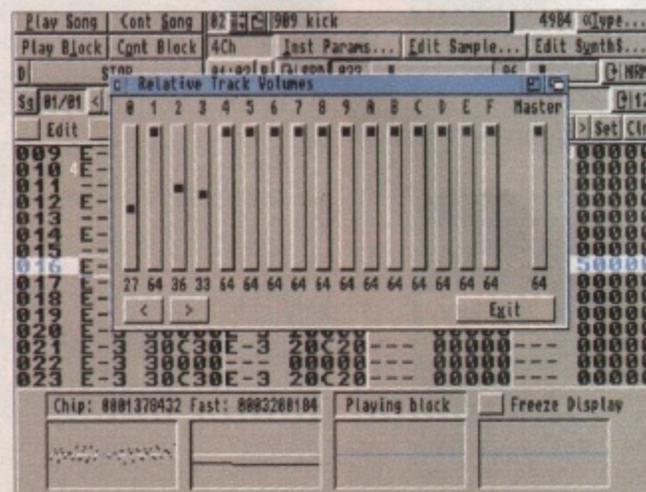
Rather than stacks of new commands and effects, a good deal of the changes are there to make your life easier. The interface, for example, is a bit of a trial at first if you're used to an old version, but after a while it's much easier to get around the program. In previous versions, it was easy to miss out on some of the features, simply because you hadn't noticed some of the little buttons. Now all you need to do is pull down a menu and peruse all those lovely features.

In terms of power, the biggest new feature is the step up to 64 MIDI tracks. This is a giant leap forward from the maximum 16 tracks of previous releases. It's still limited to four channels of normal Amiga samples, and up to eight channels of lower grade samples, but if you've got some MIDI gear, now you can really make the most of it.

### DSP SUPPORT?

The short answer is no, there isn't any DSP support. Programmer Teijo Kinnunen has written some preliminary playback routines, but they've not been implemented in this version (partly because exact details of the chip still haven't been finalised). Unfortunately, Teijo has just started his compulsory national service, so we won't see any further

Extensive use is made of Kickstart 2, with the side effect that 1.3 owners will have to go without or upgrade their machines.



updates for at least 18 months.

One problem with previous versions is that when you look at the playlist, all you see is a string of numbers. Finding your way around the list could be tricky, but not any more. Now you can give each block a name or a string of text, which describes what's happening in that block. If you take a look through the playlist, you can then pick out the section you're after.

### SAMPLER EFFECTS

The built-in sampler and sample editor have had a few changes for the better. There aren't any new effects, but you've now got a lot more control over the existing ones. The pitch changer has optional anti-aliasing, the volume boost has an optional 100 per cent limiter to avoid distortion, the filter has a further adjustable parameter, and the mix function allows you to alter the relative volumes of the two sounds. There's a menu item that automatically removes unused space from the start or end of a sample, and the loop controls are easier to use.

If you use a TV and more than four tracks, you'll be pleased to know that you can now switch the maximum number of on-screen tracks to 4, 8 or 16, instead of being forced to squint at the tiny text in 8 column mode.

### CONCLUSION

It's a shame that anyone using a 1.3 Amiga will miss out on all of this, but that's progress I suppose. I've just got to get a 1200 now! Has anyone got a few hundred quid spare? The other disappointment is that when Commodore's DSP does materialise, it looks as if we'll have a long wait before we can use it with *OctaMED*.

Apart from that, this is an excellent upgrade. After only a couple of sessions, you'll be flying around it with ease. The menus, windows and sliders mean that you can start experimenting right from the start. There are plenty of new features to keep you interested, and herds of little short-cuts that make it so much easier to use. *OctaMED* was already by far the best MIDI and sample sequencer about – now it's even better. **CU**

### UPGRADES

If you're still using the *OctaMED V3* we gave away as a coverdisk last year, you qualify for a reduced rate upgrade offer. Send your coverdisk to 169 Dale Valley Road, Hollybrook, Southampton, SO1 6QX, along with a cheque or postal order for £24, made payable to S Burt Frost. The disk must be an original CU Amiga V3 *OctaMED* coverdisk. V5 will be copied onto the disk and returned to you.

### NEW FEATURES

There are loads of new features and alterations since version 3 and 4. Here are some of the main updates.

- Kickstart 2+ only
- 64 MIDI tracks
- On-line hypertext instructions
- menu-driven interface
- named blocks
- redefinable keys and mouse buttons
- generic slide function
- improved control over sample editor effects
- autosave option

### SEASOFT COMPUTING £30

- A500  A500+  A600  A1200
- A1500  A2000  A3000  A4000

SEASOFT COMPUTING, THE BUSINESS CENTRE, FIRST FLOOR, 80 WOODLAND AVE, RUSTINGTON, WEST SUSSEX. TEL: 0903 850378.

### EASE OF USE ♦♦♦♦♦♦♦♦♦♦89%

Far more user-friendly now, thanks to the standard menus and windows.

### VALUE FOR MONEY ♦♦♦♦♦♦♦♦♦♦93%

Cheap at twice the price!

### EFFECTIVENESS ♦♦♦♦♦♦♦♦♦♦94%

Nothing can touch its power with both samples and MIDI.

### FLEXIBILITY ♦♦♦♦♦♦♦♦♦♦90%

Compatible with standard trackers, and powerful enough for professional work.

### INNOVATION ♦♦♦♦♦♦♦♦♦♦90%

In a league of its own.

**“ The best sample and MIDI sequencer there is. ”**

**OVERALL 92%**

**GAMES**

- PDG 1 STAR TREK - I. RICHTERS VERSION 2 DISKS (P)
- PDG 2 STAR TREK - BY ERIC GUSTAVSON, 3 DISKS, REQ 2 DRIVES, VERY GOOD (P)
- PDG 32 LEGEND OF FAROHAL (P)
- PDG 35 PAIR IT - EDUCATIONAL GAME (P)
- PDG 46 FRUIT MACHINE, POOL & OTHERS
- PDG 50 SEALANCE - SUBMARINE SIM GAME (P)
- PDG 60 AIR ACE II - WW2 SHOOT-EM-UP (P)
- PDG 61 ELECTRIC TRAIN SET (P)
- PDG 62 ZX SPECTRUM GAMES #1 INC EMULATOR
- PDG 63 ZX SPECTRUM GAMES VOL 2 INC EM (P)
- PDG 70 DRIP - VERY GOOD PIPE GAME (P)
- PDG 71 LLAMATRON - BY JEFF MINTER
- PDG 73 TWINTRIS - THE BEST VERSION (P)
- PDG 75 TANK THE GAME - ADDICTIVE GAME (P)
- PDG 77 STAR TREK THE NEXT GENERATION - BY TERRY MCINTOSH HI-RES GRAPHICS (P)
- PDG 82 JEOPARDY - RISK TYPE GAME (P)
- PDG 86 CRAZY SUE
- PDG 87 AMIGA COLUMNS - WELL REVIEWED (P)
- PDG 88 REVENGE OF THE MUTANT CAMELS - BY JEFF MINTER
- PDG 89 NEW STAR TREK - BY JIM BARBER, 2 DISKS
- PDG 91 LEGEND OF LOTHIAN - ULTIMA TYPE ADVENTURE (P)
- PDG 92 ASHIDO - ORIENTAL TILE GAME...GOOD (P)
- PDG 94 LEMMINGOIDS - LIKE ASTEROIDS !!!NOT
- PDG 95 INTERNATIONAL CRICKET - GOOD SHAREWARE GAME, VERY PLAYABLE (P)

**GAMES CONTINUED..**

- PDG 136 ASIF28 - DOODY, DR MARIO, INVADER II, FLAG CATCHER, MAD BOMBER (P)
- PDG 137 ASIF29 - DOG, ROME, NOVA, BRIDGE BALL, ATTACKS, QUADRIX (P)
- PDG 138 ASIF30 - CHROME, TANK ATTACK, TOTAL FIRE, BOUNCENBLAST (P)
- PDG 139 ASIF31 - ISHO-O-MATIC, CRAZY PIPES, ARAZMAX, REVOLUTION (P)
- PDG 140 ASIF32 - BLOB, FIRE FIGHTER, SEC ONE (P)
- PDG 141 ASIF33 - TOTAL WAR, HYPERBALL (P)
- PDG 142 ASIF34 - TRAIL BLAZER, Q-BIX, RUSH HR (P)
- PDG 143 ASIF35 - PONG, SNAKE, PYL, JUMP & ROLL, CYBERNETIX (P)
- PDG 147 ASIF39 - NEW CARD GAMES (P)
- PDG 148 ASIF40 - PUZZLE COLLECTION (P)
- PDG 149 MINE SWEEPER - SIMILAR TO WINDOWS VERSION (P)

**DEMOS**

- PDG 1 ANARCHY DEMO
- PDG 7 ELVIRA DEMO
- PDG 14 ROBOCOP DEMO (P)
- PDG 31 ANRCHY "OOHI IT'S OBSCENE 3"
- PDG 72 RED SECTOR DEMO #4
- PDG 76 SCOOPEX MEGA DEMO (P)
- PDG 97 PREDATORS MEGADEMO (P) 2 DISKS
- PDG 98 SAFE SEX DEMO (P)
- PDG 107 BUDBRAIN #1 - 2 DISKS (P)
- PDG 130 CHUBBY BROWN DEMO (P)
- PDG 153 BILLY CONNOLLY DEMO - 2 DISKS (P)
- PDG 160 HATRICK - "RAVE ON"
- PDG 177 BUDBRAIN 2
- PDG 287 PHENOMENA ENIGMA (P)
- PDG 288 PHENOMENA TERMINATOR
- PDG 311 ODYSSEY - BY ALCAITRAZ ... NEARLY AN HOUR OF BLISTERING VECTOR MOVIE WITH BRILLIANT SOUND (5 DISKS)
- PDG 312 HARDWIRED BY CRONICS/SILENTS (2DISKS)
- PDG 313 VOYAGE - RAZOR 1911 (P)
- PDG 314 RED SECTOR "TIME ZONE" (P)
- PDG 315 ENJOY THE SILENTS (P)
- PDG 316 DIGITAL INNOVATION - 26 MINS LONG (P)
- PDG 317 SYSTEM VIOLATION - BY ANARCHY (P)
- PDG 318 JESUS ON E'a - SUPERB!!! (P) 2 DISKS
- PDG 319 ANARCHY "IN THE KITCHEN..." (P)

**ANIMATIONS**

- PDG 12 STAR TREK - AGATRON #2 (P)
- PDG 13 STAR TREK - AGATRON #1
- PDG 5 MOONWALKER
- PDG 54 NASA GRAPHICS
- PDG 80 WALKER II - 2 DISKS, 2MB REQ (P)
- PDG 82 AGATRON "ENTERPRISE LEAVING DOCK" (P)
- PDG 123 STEALTHY MANOEUVERS - BY ERIC SCHWARTZ (P)
- PDG 305 ANTI LEMMIN DEMO - 2 DISKS 2MB (P)
- PDG 134 THE DATING GAME - 2 DISKS 3MB (P)
- PDG 135 BUZZED - RAY TRACED, 3 DISKS, 3MB (P)
- PDG 136 AT THE MOVIES II - BRILLIANT! 4 DISKS, WORKS WITH 1MB BUT MORE MEMORY THE BETTER (P)
- PDG 138 AT THE BEACH - SCHWARTZ 3MB, 2 DISK (P)
- PDG 139 UNSPORTING - EXC. AERODROM 2MB (P)
- PDG 142 GULF CONFLICT - SUPERB! 2MB (P)
- PDG 143 SWEET REVENGE - WIRE. E COYOTE GETS THE DROP ON ROAD RUNNER..... 1.5MB REQ (P)
- PDG 144 HOW TO RUN / COYOTE 2 - SCHWARTZ (P)
- PDG 145 AMY WALKS / AMY JOOS / BIG SNEEZE (P)
- PDG 147 CHARLEY THE CAT - 2MB, 2 DISK, V.GOOD (P)
- PDG 148 CHARLEY THE CAT II - 2MB, 2 DISKS (P)
- PDG 149 LINUS - BRILLIANT ANIM (P)

**CLIP ART**

- PDG 453 WEDDINGS - 2 DISKS (P)
- PDG 454 HOUSES - 2 DISKS (P)
- PDG 455 FANCY BORDERS 2 DISKS (P)
- PDG 456 COLOURING BOOK - IDEAL FOR KIDS (P)
- PDG 457 MEN AT WORK - 2 DISKS (P)
- PDG 458 WOMEN AT WORK - 2 DISKS (P)
- PDG 459 SPORT - 2 DISKS (P)
- PDG 460 ANIMALS (P)
- PDG 461 CATS (P)
- PDG 463 WORLD WAR II AIRCRAFT (P)
- PDG 464 MYTHOLOGY (P)
- PDG 465 CHURCH & PASTORAL - 3 DISKS (P)
- PDG 466 AFRICAN WOODCUTS (P)
- PDG 467 WOODCUT CATS (P)
- PDG 468 WOODCUT DOGS (P)
- PDG 470 ARCTIC WOODCUTS (P)
- PDG 471 FARM WOODCUTS (P)
- PDG 472 MIXED ANIMAL WOODCUTS (P)
- PDG 473 BIRD WOODCUTS (P)
- PDG 475 BANNER ART (P)
- PDG 476 VEGETARIAN CLIPS (P)
- PDG 478 BUSINESS (P)
- PDG 479 SAILORS, FISHERMEN, SEA LIFE (P)

ALL OF THE ABOVE ARE HUGE, HIGH QUALITY IMAGES. THE DISKS ARE AUTO BOOTING WITH SLIDESHOW VIEWERS. MULTIPLE SETS ARE AVAILABLE AS SINGLE DISKS.

**MUSIC DISKS**

- PDM 9 RIDE ON TIME / BAT DANCE (P)
- PDM 19 BAD - MICHAEL JACKSON (P)
- PDM 20 BAT DANCE (P)
- PDM 27 D-MOB MEGAMUSIC III
- PDM 225 DIGITAL DISCO
- PDM 226 PROTON MUSIC (P)
- PDM 227 HARDCORE III - YOU KNOW THE SCORE...SPACIOUS
- PDM 228 JESTERDAY - BY SANITY (P)
- PDM 212 GARFIELD SINGS
- PDM 161 NASP v3.2 - 2 DISKS, WELL REVIEWED (NOW & ROLL, CYBERNETIX (P)
- PDM 131 PET SHOP BOYS #1 - HIT MUSIC (P)
- PDM 132 PET SHOP BOYS #2 - MANIX REMIX (P)
- PDM 38 MIAMI VICE THEME - 4 DISKS
- PDM 40 MFI VANGELIS DEMO (P)

**MUSIC MAKERS PACK**

(MED 3.20 MUSIC EDITOR, SOUNDTRACKER v2.6, STAR TRACKER, 3 SONGS DISKS, 4 INSTRUMENTS DISKS. THIS IS OUR BEST SELLING PACK (A500+/A600 compatible)  
**A MUST FOR HOME MUSICIANS!**  
**£12.00**

- PDM 30 DIGITAL CONCERT II
- PDM 31 DIGITAL CONCERT III
- PDM 65 DIGITAL CONCERT IV
- PDM 85 MIAMI VICE "CROCKET'S THEME" (P)
- PDM 91 100 MOST REMEMBERED C64 TUNES (P)
- PDM 95 HI FI DEMO (P)
- PDM 106 BETTY BOO (P)
- PDM 117 FLASH GORDON - 2 DISKS (P)
- PDM 230 TRIPPIN' - BY THE BLACK JACKSON, SUPERB!

**SUPER SOUND 4**

THIS IS THE LATEST VERSION OF THE BRILLIANT SAMPLING SOFTWARE BY K.B.E. IT WILL ADD REVERB AND LOADS OF OTHER REAL-TIME FX TO YOUR SAMPLES. COMPATIBLE WITH MOST SAMPLING HARDWARE. IT IS NOT PD AND ROYALTIES ARE PAID TO THE AUTHOR (P)  
**POSITIVELY THE BEST... AT ANY PRICE!**  
**£4.99**

- PDM 118 HACKTRICK "LOADSAMONEY" (P)
- PDM 120 LAUREL & HARDY - 2 DISKS (P)
- PDM 185 PARASITES KLF
- PDM 72 POPEYE MEETS THE BEACHBOYS (P)
- PDM 82 FREDDY KRUEGER
- PDM 83 KEFREN'S JUKE BOX
- PDM 104 BASS X #5 POWER REMIX
- PDM 105 BASS X #6 SIDNEY YOUNGBLOOD (P)
- PDM 229 NASP IV - 2 DISKS, LATEST VERSION (P)

**CATALOGUE DISK**

OUR NEW DATA BASE CATALOGUE CONTAINS DETAILS OF OUR COMPLETE DISK COLLECTION. TO RECEIVE YOUR COPY SEND 3 FIRST CLASS STAMPS. ALTERNATIVELY, YOU CAN HAVE ONE FREE WITH YOUR FIRST ORDER ON REQUEST

**ASSASSINS PACK 2**

THIS ALL NEW PACK OF 35 DISKS CONTAINS THE LATEST ASI GAMES DISKS (36 TO 70). ONCE AGAIN THEY ARE CRAMMED WITH ALL OF THE LATEST AND BEST PD GAMES, FULLY MENU DRIVEN AND SIMPLE TO USE. A GREAT SEQUEL TO OUR ORIGINAL ASSASSINS PACK OR JUST AS GOOD ON THEIR OWN!  
**ALL 35 DISKS FOR ONLY.....**  
**£34.95**

**LICENCEWARE PROGRAMMERS**

AS YOU MAY BE AWARE THE DEJA VU LIBRARY HAS NOW CLOSED. WE ARE PUTTING TOGETHER PROPOSALS FOR A BETTER LICENSING SYSTEM. WE ARE CURRENTLY LOOKING FOR GOOD QUALITY PRODUCTS TO CONSIDER FOR INCLUSION IN OUR LIBRARY. IT IS LIKELY THAT THE COST OF THIS LICENCEWARE WILL BE SLIGHTLY HIGHER, AS WILL THE ROYALTIES PAID TO PROGRAMMERS. IF YOU WOULD LIKE FURTHER DETAILS EITHER CALL OR WRITE TO US AT THE ADDRESS BELOW

**LATEST DISKS**

- PDU 514 V-MORPH v2.21 LATEST VERSION OF THIS GREAT PD MORPHING PROGRAM (P)
- PDA 158 ALIENS SPECIAL EDITION SLIDESHOW DEBUT PRODUCT BY FRACTALITE - V.GOOD 2 DISKS (P)
- PDU 515 GAME TAMER v2.3 (P)

**LATEST DISKS Cont**

- PDU 446 AMOS COMPILER UPDATE v1.34 (P)
- PDU 447 NUKE v1.5B - SADDAM KILLER (WB2.0 ONLY)
- PDU 448 SCALABLE FONTS - 5 DISK SET (P)
- PDU 450 SOUND TRACKER v 2.6 (P)
- PDU 451 NOISE PLAYER v 4.0 (P)
- PDU 488 MAZE MAPPER - A MUST FOR ALL OF YOU ADVENTURERS (P)
- PDU 481 NUCLEAR FONTS - CUT N PASTE FONTS, VERY GOOD QUALITY (P)
- PDU 482 GELIGNITE FONTS II - MORE IFF FONTS, SUPERB (P)
- PDU 483 GELIGNITE FONTS III - BRILLIANT AGAIN! (P)
- PDU 484 LAND BUILD v3.2 - LANDSCAPE GENERATOR PROGRAM SHAREWARE, VERY GOOD (P)

**KICK 1.3...**  
THIS SUPERB DISK IS THE ANSWER TO COMPATIBILITY PROBLEMS FOR A500+/A600/A1200 OWNERS. IT WILL MAKE MANY OF YOUR UNUSABLE DISKS WORK ON THESE MACHINES. AN ABSOLUTE MUST FOR ANY WB2.0 OR 3.0 USER...**RECOMMENDED!**  
IT DOES THE SAME JOB AS A ROM SHARER (Amiga format Mar 93)  
**ONLY.....£1.75**  
THIS HAS GOT TO BE ONE OF THE BEST DISKS THIS YEAR!.....

- PDD 320 XPOSE DEMO - BY SILENTS 2 DISKS (P)
- PDD 321 WILDFIRE MEGADEMO
- PDD 322 MAXIMUM VELOCITY DEMO
- PDU 485 CU HELPER (P)
- PDU 486 TACK 1.2 - ANIMATION CONSTR. KIT (P)
- PDU 487 TEXT ENGINE 4.0 - LATEST VERSION OF THIS GREAT WORD PROCESSOR NOW WITH EXC. BRITISH SPELL CHECKER (P)
- PDU 488 ASOO PLUS EMULATOR LOADS KICKSTART 2.0 INTO MEMORY...BRILLIANT!
- PDU 489 PROTRACKER v3.0 - GOOD MUSIC TRACKER (P)
- PDU 490 GRINDER - GRAPHICS CONVERSIONS FROM PC/MAC TO AMIGA (P)
- PDU 491 QM v3.31 - THE QUARTERNIION MANDELBROT JULIA (P)
- PDU 492 WHOM III - DATABASE ON STAR TREK AND TNG...VERY GOOD (P)
- PDU 493 PERM CHECK PLUS -GOOD (P)
- PDU 494 DATABASES - BRASE 5.5. DATAFILE, ADDRESSER & VIDEO MAX (P)
- PDU 150 ASIF41 PACMAN DELUXE, LEAP II, TRACTOR BEAM, HELZONIC 1&2 (P)
- PDU 151 ASIF42 GALAGA '92, DOGS IN SPACE, INTRUDER ALERT, ASI CATALOGUE (P)
- PDU 152 ASIF43 OCTOHEDGE, INTERLOCK, LEAFPROG, GAMEBOY TETRIS, ROULETTE & CROSS MAZE (P)
- PDU 153 ASIF44 GALAXY '89, ROLL ON, NIBBLER, MOUSE IMPOSSIBLE (P)
- PDU 154 ASIF45 KASTLE KUMQUAT, D-TRIS, THE BRAIN 2.2, B-CASTLE, PARCHESE, TESERAE (P)
- PDU 155 E-TYPE II CLASSIC ASTEROIDS (P)
- PDU 156 FIGHTING WARRIORS GREAT AMOS BEAT-EM-UP...RECOMMENDED (P)

**MORE NEW CLIPART**

- PDU 495 TRAVEL 2 DISKS (P)
- PDU 496 GOLF HUMOUR (2 DISKS) (P)
- PDU 497 SPACE (P)
- PDU 498 US NAVY (P)
- PDU 499 FAMILY SCENES (P)
- PDU 501 SPORTING / BASEBALL (P)
- PDU 502 SOFT SCENE - LANDSCAPES (P)
- PDD 323 HALFBRAIN SUNSTONE DEMO (2 DISK) (P)
- PDD 324 ANARCHY 3D DEMO II (P)
- PDD 325 JOYRIDE BY PHENOMENA (P)
- PDD 326 STATE OF THE ART SPACEBALLS (P)
- PDU 500 TRIONI CAD v1.0 - BRILLIANT DESIGN PROGRAM, WELL REVIEWED (P)
- PDG 157 CRAZY SUE II (P)
- PDU 503 TV & VIDEO GRAPHICS - 8 DISKS, A SUPERB SET FOR THE VIDEO TITLING ENTHUSIAST (P)
- PDU 506 HARLEQUIN VIDEO FONTS #1 (P)
- PDU 507 HARLEQUIN VIDEO FONTS #2 (P)
- PDU 508 HARLEQUIN VIDEO CLIPART (P)

**NEW FOR AMIGA A1200 & A4000**

- PDA 150 WIRED SCIENCE AGA SLIDESHOW #1
- PDA 151 WIRED SCIENCE AGA SLIDESHOW #2
- PDA 152 WIRED SCIENCE AGA SLIDESHOW #3
- PDA 153 WIRED SCIENCE AGA SLIDESHOW #4
- PDA 154 SUPER HAM SLIDESHOW #2 - AGA SLIDESHOW...VERY GOOD
- PDA 154 SUPER HAM SLIDESHOW #4 - AGA
- PDA 155 SUPER HAM SLIDESHOW #5 - AGA
- PDA 156 SUPER HAM SLIDESHOW #6 - AGA
- PDD 327 PLANET GROOVE DEMO - THE VERY FIRST AGA ONLY DEMO...GREAT FX & MUSIC
- PDD 328 MINDWARP ANOTHER THERM HOC DEMO

- PDU 504 GOLF SCORE v1.84 (P)
- PDU 506 PICTURE CONVERTOR v1.6 - ANOTHER PC TO AMIGA IFF FORMAT CONVERTOR (P)
- PDU 509 SLIDESHOW GENERATOR v3.2 (P)
- PDU 510 ICON EDIT v1.0 (P)
- PDU 511 ASSASSINS PRINTER UTILS (P) - LABEL PRINT, LABEL BASE, HYPERCAT, SUPER RET LAB
- PDU 512 ADDRESS PRINT v3.0 - ADDRESS LABEL UTILITY (P)
- PDU 513 ASSASSINS AUDIO MAGIC vol 3.0 - LOADS OF PLAYERS, TRACKERS & MUSIC RIPPERS WITH FULL DOCS (P)
- PDG 158 TEXAS CHAINSAW MASSACRE - A BRILLIANT GAME (POSSIBLY CREATED WITH THE CHOP-EM-UP CONSTRUCTION KIT) NOT FOR KIDS (P)
- PDG 159 CLASH OF THE EMPIRES - NAPOLEONIC WAR SIMULATOR - 2 DISKS (P)

**24 HOUR ANSWERING SERVICE**  
YOU CAN NOW SEND FAXES OR LEAVE YOUR ORDER ON OUR ANSWERING MACHINE - 24 HOURS A DAY 7 DAYS A WEEK

**AUGUST SPECIAL OFFER**  
ANY ORDER OVER £12.00 RECEIVED DURING THE AUGUST WILL AUTOMATICALLY QUALIFY FOR A 3.5" DISK DRIVE CLEANING KIT (WORTH £3.99) ABSOLUTELY FREE  
**OFFER ENDS 31ST AUGUST 1993 E&OE.**

**UTILITIES**

- PDU 16 AIR TUNNEL SIMULATOR (P)
- PDU 32 FISH#44 ANALYTIC 5/SHEET (P)
- PDU 99 HAM RADIO UTILITIES (P) - 5 DISKS
- PDU 101 MENU MAKER
- PDU 102 LABEL DESIGNER (P)
- PDU 103 ICON MAKER (P)
- PDU 104 ICON MANIA (P)
- PDU 105 CROSSWORD CREATOR (P)
- PDU 151 FIXDISK (P)
- PDU 366 IBM - PC EMULATOR (P) SHAREWARE DEMO
- PDU 367 ATARI ST EMULATOR - ENGLISH
- PDU 368 ZX SPECTRUM EMULATOR
- PDU 369 C64 EMULATOR
- PDU 370 FLEXIBASE - DATABASE (P)
- PDU 375 MED 3.20 - MUSIC ED WITH MIDI (P)
- PDU 377 M-CAD - DESIGN PROG (P)
- PDU 378 TRANSFORMER v3.3 - IBM EMULATOR
- PDU 382 MESSYSID II - READ/WRITE PC DISKS (P)
- PDU 383 SPECTRA PAINT v3.2 (P)
- PDU 384 DISK MASTER v3.2 (P)
- PDU 385 ELECTROCAD v1.4 - SHAREWARE DESIGN PROGRAM (P)
- PDU 386 AMIGAFOX - DTP PROGRAM (P)
- PDU 388 600 BUSINESS LETTERS (P)
- PDU 389 B-BASE II - EXCELLENT, FAST DATABASE (P)
- PDU 391 FORMS REALLY UNLIMITED (P)
- PDU 398 AMIBASE PROFESSIONAL 2 (P)
- PDU 399 D-COPY v2.0 (P)
- PDU 403 NORTH C - 2 DISKS (P)
- PDU 407 OPTI UTILS #1 - GREAT! (P)
- PDU 408 OPTI UTILS #2 - EVEN BETTER (P)
- PDU 409 GELIGNITE FONTS #1

**HOME BUSINESS PACK**

THIS 8 DISK PACK CONTAINS TEXT ENGINE v3.4 - WORD PROCESSOR, B-BASE II DATABASE, VISICAL SPREADSHEET, DTP PROGRAM, 600 BUSINESS LETTERS, BUSINESS CARD MAKER, BANKING UTILS AND A FORMS DESIGNER (A500+/A600 compatible)  
**A MUST FOR HOME BUSINESS USERS!**  
**£12.00**

- PDU 410 SUPERSOUND II - THIS IS THE LICENCEWARE VERSION NOW RELEASED AS PD. THE BEST SAMPLER YET! (P)
- PDU 411 IMPLORDER v4.0 - EXC. COMPRESSION UTIL (P)
- PDU 412 HARD DRIVE UTILS (P)
- PDU 413 PROFESSIONAL D-COPY v 3.0 - EXCELLENT!
- PDU 414 SID v2.0 - NEW VERSION OF THE BEST DIRECTORY UTILITY (P) SHAREWARE
- PDU 416 NIB COPIER v2.0 - VERY POWERFUL PARAMETER DISK COPIER, BACKS UP YOUR PROTECTED DISKS
- PDU 419 SUPERKILLERS v2.5 - BEST VIRUS KILLER (P)
- PDU 421 OCTAMED v1.006 - FULL VERSION OF THE 8 CHANNEL MUSIC EDITOR (P)
- PDU 423 BOOT INTRO CONSTRUCTION SET - CREATE CUSTOM BOOT LOADERS FOR YOUR DISKS (P)
- PDU 425 AMOS UPDATER v1.34 (P)
- PDU 427 PRINTER DRIVERS - STAR 1C10, HP DESKJET & PAINTJET PLUS MANY OTHERS (P)
- PDU 429 KING JAMES BIBLE - COMPLETE TEXT WITH SEARCH ON FOUR DISKS (P)

- PDU 431 DPAINT FONTS - EXCELLENT CUT'N'PASTE FONTS ON 2 DISKS (P)
- PDU 433 PC-TASK - SHAREWARE PC EMULATOR (P)
- PDU 435 TEXT ENGINE v3.4 - BRILLIANT WORD PROCESSOR (P)

**CLIP ART PACK**

THIS IS AN ALL NEW COLLECTION OF 13 DISKS, EXCLUSIVE TO US. THEY ARE TOTALLY MENU DRIVEN, SO ARE EASY TO USE. THERE ARE OVER 1000 IMAGES IN IFF FORMAT AND ARE IDEAL FOR DPAINT OR DTP. FROM FLAGS TO FAMOUS PEOPLE AND FROM FANCY BORDERS TO VIZ CHARACTERS.....PROBABLY THE BEST CLIP ART AVAILABLE AT ANY PRICE! (A500+/A600 compatible)  
**ALL 13 DISKS FOR ONLY**  
**£15.00**

- PDU 436 TYPING TUTOR - INCLUDES SIGN LANGUAGE TUTOR (P)
- PDU 437 WORD POWER - S/WARE SPELL CHECKER (P)
- PDU 438 STAR PRINTER DRIVERS - 9 & 24 PIN MONO AND COLOUR DRIVERS DIRECT FROM STAR (P)
- PDU 442 FREECOPI v1.8 - RENOWNED COPIER (P)
- PDU 444 FREEPRINT - ART PACKAGE WITH ANIM (P)
- PDU 445 DOC DUMP - CREATES SMALL BOOKLETS FROM TEXT FILES, THE ULTIMATE PRINT UTILITY (P)

**EDUCATIONAL**

- PDE 1 LEARNS PLAY #1 - A SUITE OF PROGRAMS FOR YOUNG CHILDREN (P)
- PDE 2 LEARN & PLAY #2 (P)
- PDE 3 STORYLAND 2 - SAVE TOYLAND FROM THE WITCH (P)
- PDE 4 TOTAL CONCEPTS ASTRONOMY - INTERACTIVE BOOK (P)
- PDE 5 TOTAL CONCEPTS DINOSAURS (P)
- PDE 6 KIDSPAIN (P)
- PDE 7 MR MEN STORIES - GOOD READING AID
- PDE 8 SIMON SAYS & SPACE MATHS - V.GOOD (P)
- PDE 9 HOORAY FOR HENRIETTA - DEMO FROM LANDER SOFTWARE (P)
- PDE 10 SPELLBOUND - ANOTHER DEMO (P)
- PDE 11 HENRIETTA'S BOOK OF SPELLS - DEMO (P)

**RED SECTOR INC.**

- PDU 401 RED SECTOR DEMO MAKER - WITH DOCS
- PDU 344 RSI EXTRAS #1
- PDU 392 RSI EXTRAS #2
- PDU 393 RSI VECTOR OBJECT EDITOR
- PDU 394 RSI FONT EDITOR
- PDU 395/6/7 RSI MUSIC MODULES DISKS
- PDU 372 RSI VECTORBALLS EDITOR
- PDU 365 TSB VECTOR DESIGNER

**GAMES PACK**

THIS NEW 12 DISK PACK HAS ALL OF THE LATEST AND BEST PD GAMES. THEY ARE EASY TO USE AND VERY GOOD QUALITY  
ALL ARE COMPATIBLE WITH A500+/A600  
**A MUST FOR ALL GAMERS!**  
**£15.00**

- PDG 102 TOTAL WAR - STRATEGY GAME (P)
- PDG 104 E-TYPE - THE DEFINITIVE ASTEROIDS (P)
- PDG 105 MANIA - SHOOT SADDAM & THE IRAQI ARMY (P)
- PDG 106 AIRPORT - ATC SIMULATOR (P)

WE NOW STOCK ALL OF THE ASSASSINS GAME DISKS THEY ARE WELL PRESENTED, EASY TO USE AND CONTAIN ALL OF THE LATEST AND BEST PD GAMES...GREAT VALUE...TAKE A LOOK!

- PDG 109 ASIF1 - TANK, ROLLERPEDE, AMIGOODS, CAVE RUNNER, AVATRIS
- PDG 111 ASIF3 - MEGA BALL, DRIP (P)
- PDG 112 ASIF4 - JUMPER, GOMOKU, CRACKER, JUMPY, TURBO DUEL, KLONDYKE (P)
- PDG 113 ASIF5 - GO LOOKY, RETALIATOR, RAID (P)
- PDG 114 ASIF6 - DOWNHILL CHALLENGE, PACMAN '87, METAGALACTIC LLAMAS, WELLTRIX
- PDG 115 ASIF7 - DESTINATION MOONBASE, TRIX, NIGHTWORKS, CLOUD RUNNER
- PDG 116 ASIF8 - AIR ACE II, H-BALL, NUMBER FUMBLER, SNAKE (P)
- PDG 118 ASIF10 - PICKOUT, ESCAPE, SYS, PIPELINE (P)
- PDG 119 ASIF11 - DAD, CONNEX, TOWERS OF HANOL, REVERS, TRIPPIN' (P)
- PDG 120 ASIF12 - CAR, LLAMATRON, POWER PONG, XT
- PDG 121 ASIF13 - BALL, ASTEROIDS, TWINTRIS, BLOCK-IT, SQUJAMBLE, AMAGATRON (P)
- PDG 122 ASIF14 - CHINA CHALLENGE II, AMIGA COLUMNS (P)

**ASSASSINS PACK**

THIS IS A NEW COLLECTION OF THE FIRST 35 ASI GAMES DISKS. THERE ARE OVER 100 GAMES. ALL MENU DRIVEN...VERY EASY TO USE...IDEAL FOR THE KIDS  
**ALL 35 DISKS FOR ONLY.....**  
**£34.95**

- PDG 123 ASIF15 - BATTLE CARS, MAMBA MOVE
- PDG 124 ASIF16 - PACMAN, WASTELANDS, DI-LEMMMA, MISSION X (P)
- PDG 125 ASIF17 - JEIMAN, DEFENDA, TOMCAT, BUGBLASTER (P)
- PDG 126 ASIF18 - OMEGA RACE, SKY FLYER, HENRY IN PANIC, MEGATRON
- PDG 128 ASIF20 - AMOS COIN DROP, MICROBES, HOLLYWOOD TRIVIA, MATCH PATCH (P)
- PDG 129 ASIF21 - ZUES, TETRIS, BITLES, BATTLEMENTS
- PDG 130 ASIF22 - LEMMINGOIDS, DUEL, MOUTH MAN, WIZZY'S QUEST (P)
- PDG 132 ASIF24 - REVENGE OF THE MUTANT CAMELS, NEBULA, CROAK, 3D MAZE, DUX (P)
- PDG 133 ASIF25 - E-TYPE, ASTEROIDS, HEMARIDS, COPPER, MR WOBBLER, MR BRICK (P)
- PDG 134 ASIF26 - SUPER PACMAN '92, SMASH TV, ASHIDO, BALLY II, SYSTEM IV
- PDG 144 ASIF36 - WONDERLAND, SUB ATTACK, MOIHER LOD, TACTIX, DONKEY KONG (P)
- PDG 145 ASIF37 - KLAKTRIS, PACCOR, POD, GHOST SHIP (P)
- PDG 146 ASIF38 - ONE ON ONE, SKYFLYER 2, BALDY, TRANSPLANT (P)

**MasterCard** **VISA**

# HOW TO ORDER

**DISK PRICES**  
1 - 9 ..... £1.75 each  
10 - 19 ..... £1.50 each  
20+ ..... £1.25 each

**PAYMENT**  
We accept all major credit cards  
Please make cheques and P.O.'s payable to PD DIRECT and send to:  
**PD DIRECT**  
DEPT. AC9  
86 GEORGE STREET  
NEWCASTLE  
STAFFORDSHIRE  
ST5 1DN

**POSTAGE & PACKING** is FREE on all orders of 3 disks or more. Less than 3 disks please add £1.00.  
Europe add 25p per disk.  
Rest of World add 50p per disk.

**PERSONAL CALLERS WELCOME ..... WE ARE OPEN FROM 9.30 - 6.00 MONDAY TO SATURDAY**

# TELEPHONE OR FAX

# 0782 715255

**CU**

# AMIGA

**SPECIAL OFFERS TO CU AMIGA READERS FROM CU AMIGA ADVERTISERS (ONLY AVAILABLE IN CU AMIGA)**

## **POWER COMPUTING**

Unit 8 Railton Road  
Woburn Road  
Industrial Estate  
Kempston Bedford  
MK42 7PN

*We're offering a 5%  
discount on our RAM  
BOARD 1200 1.76 XL  
DRIVE*

*See our Advert on:  
Pages 4,5 & 125*

## **DATEL ELECTRONICS**

Govan Road  
Fenton,  
Stoke-On-Trent  
ST3 2RS

TEL:- 0782 744324  
10% DISCOUNT  
ON AMIGA ACTION  
REPLAY

See Our advert on:  
Pages 152 & 153

## **GASTEINER**

**GOLDEN  
IMAGE MARK  
2 MOUSE 400  
BPI £13**

**GASTEINER**  
UNIT 2,  
Millmead Business  
Centre Millmead Road  
London N17 9QU  
Tel: 081 365 1151

## **GASTEINER**

*Commodore  
1942 Monitor  
with speakers  
£350*

**GASTEINER**  
UNIT 2,  
Millmead Business  
Centre Millmead Road  
London N17 9QU  
Tel: 081 365 1151

## **GASTEINER AMIGA 600**

*Epic Pack  
£169*

**GASTEINER**  
UNIT 2,  
Millmead Business  
Centre Millmead Road  
London N17 9QU  
Tel: 081 365 1151

## **GASTEINER**

*Alpha Power for  
the Amiga  
A500 & A2000  
£169*

**GASTEINER**  
UNIT 2,  
Millmead Business Centre  
Millmead Road  
London N17 9QU  
Tel: 081 365 1151



# Computer Repair Zone Ltd

280 High Road, London N15 5LT

Tel: 081 365 1754

Fax: 081 808 4796

## ★ ★ ★ AMIGA REPAIRS ★ ★ ★

# £49.95

- ★ FAST TURNAROUND ★
- ★ REPAIRS WHILE YOU WAIT ★
- ★ FULLY SOAK TESTED ★
- ★ FULL 90 DAY WARRANTY ★

Cheapest price on hand held Video Games.

Supervision **£38.99**

Games **£11.99**

PHONE FOR DETAILS OF AMIGA MACHINES & ACCESSORIES

PHONE FOR DETAILS OF AMIGA MACHINES & ACCESSORIES

"FIXED PRICE REPAIRS" DOES NOT INCLUDE REPLACEMENT OF DRIVE NOR KEYBOARD

\* PRICES SUBJECT TO CHANGE WITHOUT NOTICE

\* WE RESERVE THE RIGHT TO REFUSE ANY AMIGA REPAIR

### OPENING TIMES

Monday - Friday 10am-8pm  
Saturday 10am-6pm

# AMIGA REPAIRS

## FIXED CHARGE ONLY £42.99 Incl.

FIXED CHARGE INCLUDES PARTS, LABOUR, DELIVERY, VAT

90 DAY WARRANTY ON ALL REPAIRS

24 HOUR TURN-AROUND ON 95% OF REPAIRS

ALL UPGRADES PURCHASED FROM US FITTED FREE WITH REPAIR

INCLUDES REPAIRS TO DRIVE & KEYBOARDS, ADD £10.00

IF NEED REPLACING, FULL DIAGNOSTIC TEST AND SERVICE

Est. 12 Years

In Stock

## SPECIAL OFFERS

New Low Price

<b>INTERNAL 3.5" DRIVE</b> £38.99 <i>Simple to fit, fully documented</i>	<b>A500 MODULATOR</b> £18.80 <i>Exchange repair</i>
<b>ROM SWITCHER</b> £14.95 <i>Keyboard/mouse switched</i>	<b>A500 KEYBOARDS</b> £44.10 <i>Factory new, Genuine part</i>
<b>KICKSTART 1.3 ROM</b> £25.00 <i>For software compatibility</i>	<b>FATTER AGNUS 8372A</b> £36.50 <i>1 Meg chipram compatible</i>
<b>KICKSTART 2.05 ROM</b> £29.90 <i>Upgrade to A500+ Rom</i>	<b>CIA IC</b> £9.20 <i>Printer, Serial, Drive ports</i>
<b>SUPER DENISE</b> £28.70 <i>Excellent value</i>	<b>GARY IC</b> £11.50
<b>68000 CPU</b> £15.00	<b>PAULA IC</b> £19.95
	<b>A500 PSU</b> £25.00

### ATTENTION ALL DEALERS

Our company now offer the most competitive dealer repair service.

Full credit facilities available

Send for our Free information pack today...

We reserve the right to refuse repair for whatever reasons

CU 594

Prices only valid with this coupon

Service HOTLINE (0533) 470059

DART Computer Services

105 London Road

LEICESTER LE2 0PF



# DART

Computer Services

## COLOUR KITS for MONO PRINTERS

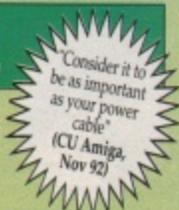
Ever wished you'd bought a colour printer instead of a mono one? Wouldn't it be nice to print out pictures in colour? Now you can with Amiga "Flexicolor Kit". Each Amiga Flexicolor kit comes complete with everything you need to print in colour, including superb software. The colour kit is simple to use, the ribbons fit exactly the same way as your black ribbons so it will not affect your guarantee. Also on all models listed below paper alignment is automatic, you do not have to manually align. PRINTS AS GOOD AS COLOUR PRINTER. If your printer is not listed below please phone. Amiga Flexicolor kits for Star LC10, LC20, all Star 24 Pin, Panasonic 1080/81/1123/1124, Epson FX80, FX100, LQ800 etc. Citizen 120D+, NEC P6, P6+. Please note colour kits come complete with coloured ribbons. COMPLETE KIT £39.95

### FLEXIDUMP 2

- ★ Total COLOUR CONTROL
- ★ Select area to print
- ★ Select size to be printed
- ★ Balance control for enhancing dark pics IFF or HAM
- ★ Now includes new feature to insert colour pics into word processor documents. ★ Page control. ★ Colour sieve
- ★ Ink correction. ★ Pattern rotate. ★ Dot pattern control
- ★ Automatic poster mode for larger than A4
- ★ Production Graphic/Text Labels/Letterheads
- ★ Multiple copies control
- ★ PRINT FULL COLOUR ON YOUR BUBBLE JET PRINTER
- ★ Colour separation for B jets. ★ Laser quality colour graphics
- ★ Import larger than screen size files and use Flexidump to reduce (produces superb letterheads).
- ★ Gamma correction (fully adjustable and savable)
- ★ Colour/Mono catalogue function. Will print a mini picture (size selectable) of a complete disc (sorted alphabetically) including titles
- ★ Ideal for T-Shirt printing. Drives a wide range of Colour and Mono printers. Star LC10, LC20, LC200, Citizen Swift, Nec, Panasonic KXP2180/2123, Canon etc.

£39.95

UPGRADE FROM FLEXIDUMP TO FLEXIDUMP 2 £11.75 inc. RETURN MASTER



### T-SHIRT PRINTING RIBBONS

PRINT ON NORMAL PAPER IRON ON T-SHIRT

4 Colour Citizen Swift	£29.95
4 Colour Citizen Swift (Reload)	£14.95
4 Colour Star LC10	£14.95
4 Colour Star LC200 9 Pin	£19.95
4 Colour Star LC200 9 Pin (Reload)	£12.95
4 Colour Star LC200 24 Pin	£29.95
4 Colour Star 24 Pin (Reload)	£14.95
1 Colour Citizen 120D/Swift	£11.95
1 Colour Star LC10	£11.95
1 Colour Star LC200 9 Pin	£11.95
1 Colour all Star 24 Pin	£11.95
1 Colour Epson FX80/LQ400/MX80	£11.95
1 Colour Epson LX80	£11.95
1 Colour Epson FX100	£11.95
1 Colour Panasonic KXP 1080	£11.95
1 Colour Taxan/Canon 1080A	£11.95
Heat transfer Pens 5 large red/orange/yellow/green/blue, Large pens have a marker size nib	£14.95 a set
Heat transfer Pens 5 small red/orange/yellow/green/blue, Small pens have a fine nib	£11.95 a set

T-SHIRT RIBBONS NOW AVAILABLE IN RED, BLUE, GREEN, BROWN, YELLOW and BLACK AND FOR A WIDE RANGE OF PRINTERS

ALL PRICES INCLUDE VAT AND CARRIAGE

### COLOUR PRINTER RIBBONS

Don't throw away your plastic printer ribbon cases when the ribbon wears out. Just take the top off, take out the old ribbon and reload it with a new one. It's simple. Full instructions supplied.

Reloads for:-

Star LC200 9 Pin 4 Colour (Normal Ink)	1 Reload - £5.99	5 Reloads - £23.95
Star 24 Pin 4 Colour (Normal Ink)	1 Reload - £6.99	5 Reloads - £29.95
Citizen Swift 4 Colour (Normal Ink)	1 Reload - £6.99	5 Reloads - £29.95
Panasonic 4 Colour (Normal Ink)	1 Reload - £6.99	5 Reloads - £29.95

Ink ribbons also available in Gold, Silver, Magenta, Orange, Purple, Brown, Green, Blue, Red for a wide range of printers.

Special reink for Panasonic printers and Star LC200 9-pin black 59ml bottle £14.95

### HP DESKJET/CANON BUBBLEJET REFILLS

"CARE THREE PACK" will refill HP51608A Cartridge 3 times. The Canon BC-01/SJ48 Cartridge 3 times. Three Pack available in Yellow, Magenta, Cyan, Red, Blue, Green, Brown, Purple, Black £14.98 each.

"TRI-COLOUR PACK" 1 Yellow, 1 Magenta, 1 Cyan refill £17.95 available for Bubblejet and Deskjet

"CARE SIX PACK" will refill HP51608A cartridge 6 times. The HP51626A High Capacity 3 times. The Canon BC/01 Cartridge 6 times.

Please state type when ordering  
6 BLACK REFILLS ONLY £24.95

How to order: Enclose cheques/PO made payable to: CARE ELECTRONICS or use Access/Visa.

### CARE ELECTRONICS

Dept CUA, 15 Holland Gardens, Garston, Watford, Herts, WD2 6JN. Fax: 0923 672102



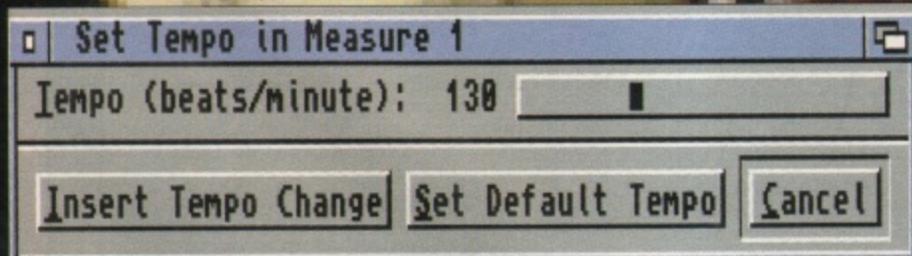
ORDER LINE ON 0923 894064



# Deluxe Music

## CONSTRUCTION SET 2.0

With the first completed copy to hit the UK, Mat Broomfield takes a close look at *Deluxe Music 2.0*, the most eagerly awaited sequel this year!



Set the Tempo for a section of a song, or alter the overall default. Songs loaded from version 1.0 will all play too fast so be prepared to make adjustments.



The SetClef requester is an ideal example of DMCS' new user-friendly Workbench 2.0 way of doing things.

**E**lectronic Arts describe *Deluxe Music Construction Set 2.0* (DMCS) as the musical equivalent of a word processor, turning your computer into a desktop music publishing studio. In the same way as a word processor allows an author to quickly record and manipulate literary ideas, DMCS lets a composer do the same for musical ideas. However, the analogy falls down in one important area. To find out more let's take a look at the program...

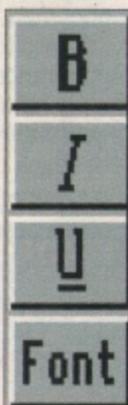
### QUATRO SCREENIO

When you initially load DMCS, the screen is divided into four areas. Running along the top is the menu bar containing eight menus. At the left of the screen is a tool window whose contents change according to your requirements. However, most of the time this window will hold the actual notes that you will use to create a score. At the bottom of the screen, there's a keyboard window containing, surprise surprise, a keyboard! This can also be used to enter notes, either singly or as part of a chord. The main and central part of the screen is occupied by the score window. This is the place where your score will appear as you create it.

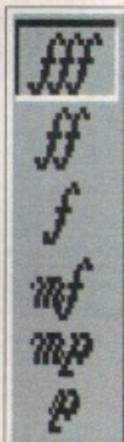
Before you start to create a score, you can use the options in the Settings menu to tailor the environment to your own personal tastes or requirements. This menu contains options such as whether or not to highlight notes when a score is being replayed, and what kind of MIDI set up, if any, you are using. If, like me, you tend to stick with a single configuration, you can save your preferences for future use.

### STAVING OFF THE INEVITABLE

A new score consists of only two staves denoted by a treble and bass clef (which can be changed to tenor or alto clefs if needed). In the original version of the program, you could only add a further six staves, bringing the total to eight. This meant that the program was fine for creating tunes that only used the Amiga's four internal sound channels, but when it came to MIDI use, it was very restricting. Thankfully, the program now permits the use of up to 48 staves – more than enough for the most dedicated MIDI composer, even one composing for an entire orchestra! If you do find yourself working on a score that uses more than four staves, you'll soon come to wish as I do, that the programmers had thought to number each staff and each bar,



You can even add lyrics and guitar tablature messages to your score.



The program supports the full range of dynamics, it's just a pity that their actual volume isn't user-definable.

regardless of the part of the score that you are editing. The bars are numbered but only at the bottom of the page, so if you are working at the top of a 24 staff page, you'll have to keep scrolling to the bottom to see which bar you're working on. The individual staves are not numbered at all, so it can be pure guesswork to figure out which one you're actually working on, especially as you get further and further away from the start of a score.

By default, staves are given a time signature of 4/4 (common time) and a key signature of C major. If you need to change these settings, you may do so using the appropriate menu options. The time Signature option now supports only 64 beats per bar (measure) as opposed to version 1's 99. However, the beat duration has been increased from 16 to 64. For most average compositions, time signatures above 12/16 will be rare.

When it comes to setting the key signature of your music, you'll need to select the appropriate key from a scale wheel known as the 'circle of fifths'. For people who understand music theory, the circle of fifths lets you specify a key in either a major or minor key, and existing music can be transposed into the new key. For inexperienced musicians, the anti-clockwise segments of the circle add flat symbols to the key and clockwise segments add sharp ones.

### REQUEST STOP

Having set the clef, key and time signatures, you're ready to begin entering notes. Click the note icon in the tool window and select the required note from the note palette below. Users of the original program will notice that there are two additional notes available – 64ths (hemidemisemiquavers) and double notes (breves). Although the breves aren't particularly useful, the 64th notes are invaluable, both for classical and electronic styles.

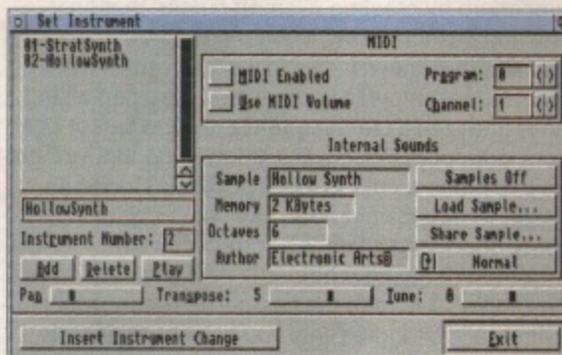
When you've selected a note, there are three types of modifiers that can be applied to it before it's positioned in the score – triplets, dots and accidentals. Triplets (triplets, quintuplets and septuplets) decrease the duration of the note. For example, suppose a triplet is added to a quaver, it reduces its duration by one third. The addition of septuplets (which reduces the duration of a note by a seventh) is very handy for classical musicians. Dots increase the duration of notes. A single dot increases it by 50 percent, whereas two dots (a double-dot) increases it by 75 percent. The latter

### INFLEXIBLE VOLUME

DMCS provides a full range of dynamics (volume settings) ranging from PPP (very softly) to FFF (very loud). These are difficult to position accurately, and although the instruction manual is voluminous, a great many specific details are notable by their absence. Control of dynamics is doubly irritating when used with a MIDI instrument because you cannot pre-define EXACTLY what volume level PPP, MF or FFF should represent. Therefore PPP is not audible with my synth when any other notes are playing.

Two of the more important menu options are Tie Up/Down which is used to join two notes together so that a single note plays for their combined duration, and Slur Up/Down, which tells the computer to play all selected notes legato, creating seamless transitions from one note to another (depending upon the instrument being used of course). Both options appear as curved lines between a group of notes, and in DMCS 1.0 were rather bug-ridden both in their articulation and the way that they appeared on the screen. These have been debugged so that they look and sound as they should.

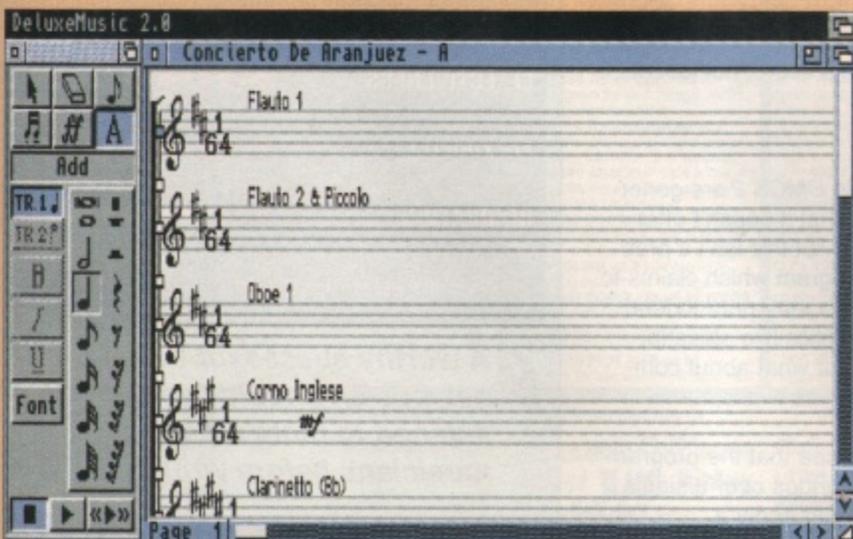
is another new option that will find favour with classical musicians. The final modifiers – accidentals – change the pitch of a note outside of the current key signature. For example, in the key of C major there are no sharp or flat notes. Therefore, any which occur are known as accidental and must be specifically added. Regrettably, the programmers



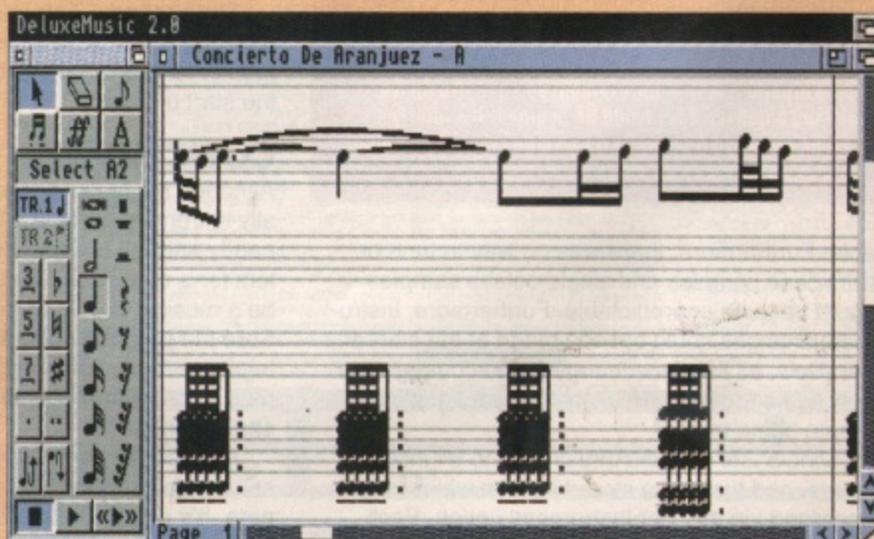
By far the most significant improvement is in the way that DMCS 2.0 handles instruments. Everything from 1-7 octave samples as well as MIDI and even *One Stop Music Shop* is supported. You can set the stereo position of your sounds, and samples can be tuned and transposed with 100th of a semi-tone precision.

didn't take this opportunity to provide double sharps and flats, which would really have been nice as it's currently impossible to create chords that include sharpened and natural versions of the same note.

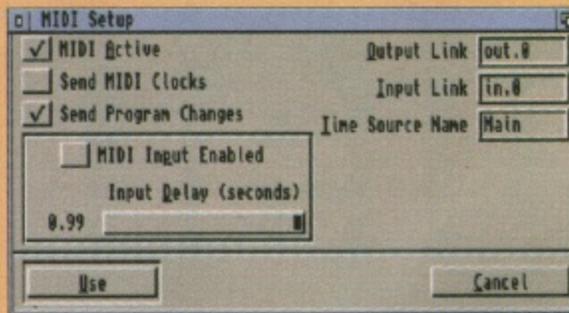
Having chosen a note and any modifiers, all that remains is to position it on the score by moving the cursor (which has now turned into the selected note) to the required staff and clicking the mouse button. Here again, the new version of DMCS has been improved. In the old version the



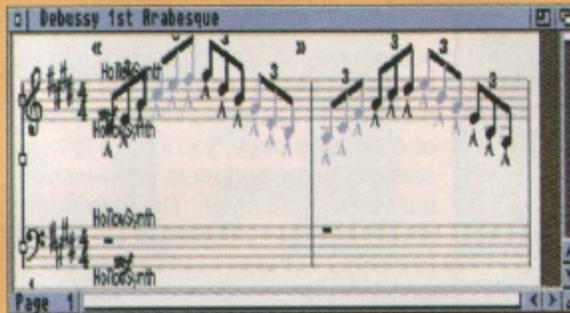
Instruments can now be set at any point in a score, not just at the start of a bar.



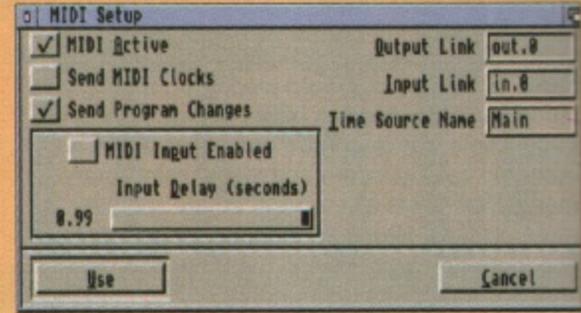
With support for up to 48 staves, DMCS can cope with the most demanding compositional requirements.



The program supports MIDI input, but despite initial plans, it cannot support real-time entry after all.



No longer must you define groups of adjacent notes. Only those that you want to be part of a group need be included.



This is how the program looks when you initially load it, although you can customise it to your requirements.

>> cursor could be moved up and down the staff pixel by pixel which, whilst producing lovely smooth animation (!), could mean that you sometimes put a note down on a line when you meant to do it on a space or vice versa. Version 2 overcomes that problem by only allowing the cursor to appear exactly on lines or spaces. Another new feature is the cursor position/action indicator. This small read-out simply displays the cursor's current note position and the action that will be performed if you click the left mouse button.

### SMARTY PANTS

Electronic Arts have further refined the note entry procedure by creating a 'smart cursor' that only lets you position notes in legal positions. In my opinion, this doesn't always work to your advantage. For example, if you have a chord containing an A and a C, it can take really precise cursor positioning before DMCS will acknowledge that you are able to place a note in the B position. I found it easier to put down a note, say half an octave away, then drag it into the correct position.

When dragging a note to a new pitch (or indeed positioning a note in the first place) a new option 'Chromatic Dragging' lets you select accidentals without having to resort to the tool window. Initially I was very keen on this option, but after a while it simply became confusing, counteracting the benefits of the new way of positioning notes. Nevertheless, when composing music, especially when you've not decided on a key signature, this option is invaluable.

### BRAVO

The program's handling of samples has been improved beyond all recognition. In the old program, no consideration was made for the stereo nature of the Amiga, and this meant that sounds just blurred out of whichever channel was avail-

### ALAS POOR YORICK!

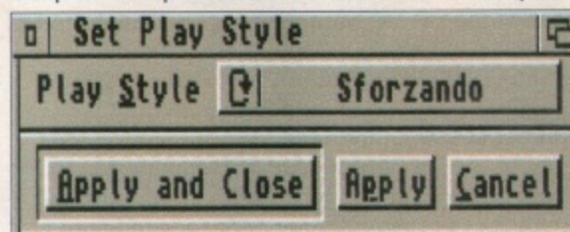
When I saw the incomplete version of DMCS 2.0, it featured a couple of items that have mysteriously disappeared in the final version. The colour scheme is an example of the less important changes. However, one absence which worked perfectly in the preview is the ability to beam groups of notes around a rest, if for example you had two quavers, a rest and a quaver, they could be beamed. It's utterly beyond me why EA chose to remove this important option when it was already working.

able. Furthermore, there was no way to tune or transpose samples and single octave samples could be quite unpredictable. Furthermore, instrument changes could only be made at the start of a bar. Now, all that has changed, and compared to how it used to be, DMCS' instrument handling is a dream come true!

DMCS 2 is capable of using up to 64 instruments, and these are stored in a list which is accessed via the 'Set Instrument' option. Each entry in the instrument list refers to a sample or a MIDI instrument. This means that you could create

an instrument called 'Lead' which actually refers to a sample called 'Stratocaster'. Alternatively 'Lead' could just as easily refer to MIDI instrument number 30. This means that you can insert instrument changes in a song, then specify the exact instruments to be used at your leisure. DMCS 2 can handle samples consisting of 1-7 octaves and these can be transposed in semi-tones and tuned in 100ths of a semi-tone. Although MIDI instruments can't be tuned, they can be transposed.

Each instrument can be assigned a stereo position using the pan slider. If it's a MIDI instrument, then you can specify the position in steps of 1.4 degrees. If you're using a sample then obviously you can only specify whether the sound will appear from the left or right channel using a system known as 'preferred pan'. This means that if two samples



You can add a playstyle (such as slow attack or echo) to a specific note, or directly to an instrument.

are already playing out of your preferred channel, the instrument will play from the other side. Strangely, although the Transpose and Tune sliders have digits to show exactly how much a sample has been tuned/transposed by, the pan slider has no such quantitative indicator so any settings will have to be made by ear.

### SHARE SAMPLE

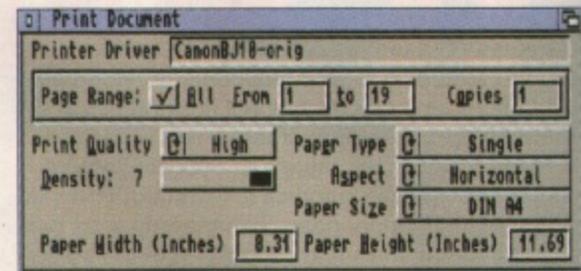
Share sample is an excellent new instrument option that lets two different instrument names share the same sample rather than wasting memory loading the same sound twice. This is useful because it means that you can create for example, a left and right channel version of the same sample with virtually no memory overhead.

The best new instrument feature of all in this package is the fact that you can now insert instrument changes at any point in a score, not just at the start of a bar.

### CONCLUSION

Although my feelings towards DMCS 2 are generally extremely positive, I feel that it doesn't offer nearly enough ornaments. Whilst this isn't a problem for a sequencer, for a program which claims to be a musical DTP package, it's very poor indeed. Sure the program supports basics like staccato, legato and even sforzando, but what about common classical ornaments such as twists, turns, shakes and trills?

It's also very annoying to see that the program still doesn't support de/crescendos over a single note. It's ridiculous that one can apply a crescendo over two tied semi-breves, but not over a single breve.



The program's print routines are vastly improved, if only clefs, key and time signatures weren't duplicated at the start of EVERY single printed bar!

The printing section is vastly improved and even offers high and low quality print-outs (although they both seemed equally slow, and of equally high quality to me). The print resolution is much higher than previously, and can genuinely claim to be of near-DTP quality. The only irksome thing in this regard is the way that the program insists on printing the clef, key and time signatures at the start of every printed bar, even when printing four bars per line. This tends to detract from the professionalism of the finished result as far as I'm concerned.

Overall, I'm greatly heartened to see the appearance of *Deluxe Music 2* and it will definitely be my notation package of choice. It's far and away the friendliest package of its type. By version 2.2 I think that Electronic Arts are really going to have something to brag about... **CU**

### ELECTRONIC ARTS £89.99

- A500  A500+  A600  A1200
- A1500  A2000  A3000  A4000

All Amigas with at least 1 Mb RAM.  
ELECTRONIC ARTS, 90 HERON DRIVE,  
LANGLEY, BERKS. TEL: 0753 549442

EASE OF USE	◆◆◆◆◆◆◆◆◆◆ 95%
<i>Very intuitive and user-friendly</i>	
VALUE FOR MONEY	◆◆◆◆◆◆◆◆◆◆ 80%
<i>A lot of money, but not bad when it's compared to Copyist.</i>	
EFFECTIVENESS	◆◆◆◆◆◆◆◆◆◆ 70%
<i>Basic features, but well implemented.</i>	
FLEXIBILITY	◆◆◆◆◆◆◆◆◆◆ 70%
<i>Good but should have more notation options.</i>	
INNOVATION	◆◆◆◆◆◆◆◆◆◆ 30%
<i>Only includes the logical and overdue improvements to their own seven-year-old product.</i>	

**A worthy successor to the original, but EA should have listened to more classical musicians before writing it!**

**OVERALL 70%**



# Eagle Software



**LIMITED OFFER  
WING  
COMMANDER  
£12.99  
ORDER NOW**

CREDIT CARD HOTLINE:

**081 889 9172**

ENQUIRY/ORDER LINE:

**081 361 5730**

24 HOUR FAX LINE

**081 361 2733**

**118a Palmers Road  
New Southgate  
LONDON N11 1SL**

<b>BITMAP BROTHERS VOL 1</b> only £16.99 Xenon, Cadaver and Speedball II	<b>DREAM TEAM</b> only £16.99 Terminator II, Simpsons, W.W.F.	<b>RAVING MAD</b> only £12.99 Mega Twins, Rodland, Robocod
<b>SPACE LEGENDS</b> only £19.99 Asiga only Mogatraveller I, Elite, Wing Commander	<b>SOCCER MANIA</b> only £11.99 Football Manager II, Gazza's Soccer, Football Manager - W.C. Edition, Microprose Soccer	<b>POWER PACK II</b> only £17.99 Predator II, Battle Master, Wings, It Came From The Desert
<b>BIG BOX</b> only £15.99 Captain Blood, Tin Tin on the Moon, Safari Guns, Teenage Queen, Bubble Plus, Purple Saturn Days, Krypton Egg, Jumping Jackson, BoBo, Hostages	<b>TEST DRIVE II COLLECTION</b> only £15.99 Muscle Cars, California Challenge, European Challenge, Duel, Super Cars	<b>BIG BOX II</b> only £19.99 Back to the Future III, R-Type, IK*, Real Ghostbusters, Def of the Earth, TV Sports Football, Shanghai, Armalyte, Sinbad, Bombocool
<b>BOARD GENIUS</b> only £17.99 Deluxe Monopoly, Deluxe Scrabble, Cleudo Master Detective and Risk	<b>4 WHEEL DRIVE</b> only £19.99 Lotus Esprit, Celica GT4 Rally, Team Suzuki, and Combo Racer	<b>POWER PACK</b> only £14.99 Xenon 2, TV Sports Football, Bloodwych and Lombard Rally
<b>HOLLYWOOD COLLECTION</b> only £18.99 RoboCop, Ghostbusters 2, Indiana Jones, Batman the Movie	<b>RAINBOW COLLECTION</b> only £13.99 New Zealand Story, Bubble Bobble, Rainbow Islands	<b>COMBAT CLASSICS</b> only £20.99 F15 Strike Eagle II, 688 Attack Sub and Team Yankee
<b>TRIPLE PACK 1 (SPORTS)</b> only £12.99 Microprose Soccer, Panza Kick Boxing, 3D Pool	<b>NINJA COLLECTION</b> only £13.99 D. Dragon, Shadow Warrior, D. Ninja	<b>TRIPLE PACK II (ACTION)</b> only £12.99 Streetfighter, Rick Dangerous II, Last Crusade Action
<b>THE GREATEST</b> only £19.99 Jigsaw White's Whirlwind Snooker, Lure of the Teampress, and Dune	<b>AWARD WINNERS ONLY</b> £16.99 Kick Off II, Pipemania, Space Ace and Populous	<b>2 HOT 2 HANDLE</b> only £18.99 Golden Axe, Total Recall, Shadow Warrior, Super Off Road Racing
<b>STRATEGY MASTER</b> only £21.99 Douteros, Populous, Hunter, Chessplayer 2150 and Splits of Excalibur	<b>SUPER FIGHTER</b> only £16.99 Pitfighter, W.W.F., Final Fight	<b>MEGA MIX</b> only £19.99 Leander, Agony and Ork
<b>DIZZYS EXCELLENT ADVENTURES</b> only £16.99 Dizzy Panic, Bubble Dizzy, Dizzy Prince of York Folk, Spellbound Dizzy and Kwik Snak	<b>NAPOLEONICS</b> only £16.99 Waterloo, Borodino, Austerlitz	<b>SPORTS COLLECTION</b> only £12.99 Run the Gauntlet, Pro Tennis Tour and World Cup Soccer (Italki '90)
<b>SPORTS MASTERS</b> only £19.99 PGA Tour Golf, Indy 500, Advantage Tennis, and European Championship 1992	<b>ANIMATION CLASSICS</b> only £27.99 Space Ace, Dragon's Lair II, Wrath of the Demon	<b>ACTION 5</b> only £19.99 Rick Dangerous II, Ghostbusters II, Gunship, Super Ski and Hard Driving

TOP TITLES	AMIGA	TOP TITLES	AMIGA	TOP TITLES	AMIGA	TOP TITLES	AMIGA	TOP TITLES	AMIGA	EDUCATIONAL	
A500+ 1Meg Upgrade	£39.99	Crazy Cars III	£16.99	Lawn Mower Man *	£16.99	Savage Empire	£22.99	The Games '92 Espana	£20.99	ADI English 11-12	£16.99
A800 1Meg Upgrade + clock	£49.99	Crystal Kingdom Dizzy	£13.99	Leander	£10.99	Scrabble (US Gold)	£18.99	Their Finest Hour	£19.99	ADI English 12-13	£16.99
0.5 Meg Upgrade + clock	£25.99	Cyberspace *	£23.99	Leathal Weapon	£16.99	Secret Silver Blades	£21.99	The Manager	£20.99	ADI English 13-14	£16.99
3D Construction Kit II	£36.99	Dalek Attack	£12.99	Leeds Utd	£14.99	Secret Weap Luft *	£19.99	Thunderhawk AH-73M	£21.99	ADI French 11-12	£16.99
4D Sports Boxing	£11.99	Darkmere	£16.99	Legend	£11.99	Sensible Soccer 92-93	£16.99	Thunder Jaws	£16.99	ADI French 12-13	£16.99
4D Sports Driving	£11.99	Das Boot	£11.99	Legend of Kyrandia	£21.99	Shadowlands	£20.99	Tip Off	£16.99	ADI French 13-14	£16.99
A320 Airbus	£23.99	Deliverance	£15.99	Legends of Valour	£23.99	SHADOW BEAST II	£11.99	Toki	£39.99	ADI Maths 11-12	£16.99
A320 Airbus USA	£26.99	Desert Strike	£19.99	Lemmings	£15.99	Shadow of the Beast III	£11.99	Toon World *	£16.99	ADI Maths 12-13	£16.99
A-Train	£23.99	D/Generation	£11.99	Lemmings and Data Disk	£19.99	Shadow Works	£16.99	Tornado *	£23.99	ADI Maths 13-14	£16.99
A-Train Con Set	£13.99	Dreadnoughts	£22.99	Lemmings II	£19.99	Shuttle the Sim	£20.99	Troddlers	£16.99	Better Spelling 8-14	£14.99
Addams Family	£7.99	Dream Web *	£27.99	Lemmings - Data Disk	£10.99	Silent Service II	£23.99	Trois 500/1200	£11.99	Better Maths 12-16	£14.99
Agony	£11.99	Dune	£19.99	Lemmings - Stand Alone	£15.99	Sim Ant	£22.99	TV Sports Baseball	£11.99	Fun School 2 under 6	£6.99
Air Combat Patrol	£19.99	Dune II *	£19.99	Little Devil	£16.99	Sim Earth	£23.99	TV Sports Boxing	£11.99	Fun School 2 6-8	£6.99
Air Support	£11.99	Dungeon / Chaos	£19.99	Links HD	£23.99	Sim Life *	£19.99	Turtles II	£11.99	Fun School 2 over 8	£6.99
Alfred Chicken *	£16.99	Dyna Blast	£20.99	Liquid Kids *	£16.99	Simpsons	£6.99	Twilight 2000	£23.99	Fun School 3 under 5	£13.99
Aliens III *	£16.99	Elvira II - Cerberus	£23.99	Loom	£10.99	Sleepwalker 500/1200	£20.99	Ultima V	£19.99	Fun School 3 5-7	£13.99
A. Maclean's Pool	£16.99	Epic	£19.99	Lost Treasures of Infocom	£23.99	Snow Bros	£16.99	Ultima VI	£12.99	Fun School 3 7+	£13.99
Amos (Easy)	£23.99	Eye of the Beholder	£19.99	Lotus Turbo Challenge II	£8.99	Soccer Kid 500/1200	£19.99	Universal Masters	£16.99	Fun School 4 under 5	£16.99
Amos 3D	£23.99	Eye of the Beholder II	£23.99	Lotus Turbo Challenge III	£16.99	Soup Trek *	£16.99	Uridium II *	£17.99	Fun School 4 5-7	£16.99
Amos Compiler	£19.99	F15 Strike Eagle II	£12.99	Lure of the Teampress	£19.99	Space 1889	£16.99	Utopia	£17.99	Fun School 4 7+	£16.99
Amos Professional	£24.99	F117A Stealth Fighter *	£21.99	MacDonald Land	£16.99	Space Ace II	£33.99	Utopia New World	£11.99	Junior Typist	£11.99
Amos Professional Compiler	£23.99	F19 Stealth Fighter	£12.99	Maestrom (1 meg)	£23.99	Space Gun	£12.99	Viking Fields of Conquest	£15.99	Magic Maths (4-8)	£14.99
Amos The Creator	£36.99	F29 Retaliator	£15.99	Magic Pockets	£15.99	Space Crusade + Upgrade	£16.99	Voyage Beyond Data Disc	£9.99	Maths Mania	£14.99
Ancient Art of War in Skies	£23.99	Face Off - Ice Hockey	£7.99	Man Utd. Europe	£7.99	Space Quest IV	£23.99	Vroom	£16.99	Noddy's Playtime	£16.99
Another World	£17.99	Falcon	£11.99	Man Utd. Premier *	£19.99	Special Forces	£23.99	Walker	£18.99	The Three Bears	£14.99
Aquaventure	£13.99	Falcon Mission Disk I	£8.99	M. Dikka Ultimate Football *	£18.99	Street Empire	£20.99	War in the Gulf	£19.99		
Arabian Nights 500/1200	£19.99	Falcon Mission Disk II	£8.99	Mega Fortress	£16.99	Street Master	£26.99	Waxworks	£21.99		
Armourgeddon	£15.99	Falcon 3.0	£23.99	Mega Sports	£16.99	Street Fighter II	£17.99	White Death (1 Meg)	£12.99		
Armourgeddon Upgrade *	£10.99	Fantastic Voyage	£16.99	Megatraveller II	£20.99	Strike Fleet	£9.99	Wily Beamish	£23.99		
Armourgeddon II *	£19.99	Fate of Atlantis (Adv)	£25.99	Microprose Golf	£16.99	Striker	£16.99	Wing Commander	£22.99		
Arsenal FC	£16.99	Fate of Atlantis (Arc)	£16.99	Midwinter II	£12.99	Super Cauldron *	£16.99	Wiz Kid	£15.99		
Assassin	£16.99	Final Fight	£7.99	Mig 29 Fulcrum	£9.99	Superfrog	£16.99	Worlds of Legend	£16.99		
A.T.A.C. *	£23.99	Fire and Ice	£15.99	Might of Magic III	£23.99	Super SWIV *	£16.99	W.W.F.	£7.99		
B17 Flying Fortress	£23.99	First Samu/Megaloman	£20.99	Moonstone	£10.99	Syndicate	£18.99	W.W.F. II	£15.99		
Bane of the Cosmic Forge	£24.99	FireStone HD Scenery	£13.99	Monkey Island	£15.99	Tear Away Thomas	£10.99	Zoo 500/1200	£16.99		
BARBARIAN II (Psyq)	£10.99	Flashback	£20.99	Monkey Island II	£25.99	Tennis Cup 2	£7.99				
Bart vs the World *	£16.99	Flight of the Intruder	£11.99	Mouse (Switchable)	£9.99	Test Drive III *	£15.99				
Batman Returns *	£16.99	Football Crazy	£14.99	Morph	£15.99						
Battle Chess II	£16.99	Football Manager III	£11.99	Myth	£8.99						
Battle Isle	£18.99	Free DC	£18.99	Nick Faldo Golf	£23.99						
Battle Isle Data Disc	£13.99	Global Effect	£16.99	N. Mansell World Champ	£20.99						
Battle Isle '93	£20.99	Goal/Kick Off III	£19.99	ORBITUS	£12.99						
Battle Toads	£16.99	Goblins II	£14.99	Ork	£12.99						
Beavers	£16.99	Gods	£14.99	Outlanders *	£16.99						
Birds of Prey	£23.99	Golden Shot	£16.99	Overdrive	£17.99						
Black Crypt	£16.99	G. Gooch Cricket	£19.99	Pacific Islands - T.Yankee II	£20.99						
Blade of Destiny	£30.99	Graham Taylor	£15.99	Pacific Islands II *	£21.99						
Blue Max	£11.99	Grand Prix (Formula)	£23.99	Parasol Stars	£15.99						
Body Blows	£16.99	Gunship 2000	£23.99	PGA Golf Tour +	£20.99						
Buck Rogers	£19.99	Guy Spy	£20.99	PGA Courses Disk	£10.99						
Burn Up *	£20.99	Harlequin	£14.99	Pinball Dreams	£15.99						
Cadaver - the pay off	£16.99	Harpoon (1 Meg)	£19.99	Pinball Dreams II	£16.99						
Caesar	£16.99	Heimdall	£18.99	Populous II - The Challenge	£11.99						
Campaign	£22.99	Hero's Quest II	£16.99	Populous II + (1 Meg)	£23.99						
Campaign Mission Disk	£10.99	Hill Street Blues	£9.99	Power and Glory *	£19.99						
Campaign II *	£23.99	Historyline 1914-18	£21.99	Power Up Compilation	£12.99						
Captive	£11.99	Home Alone	£16.99	Premier Manager	£18.99						
Captive II	£17.99	Hook	£15.99	Push Over	£15.99						
Carl Lewis Challenge	£15.99	International Open Golf	£16.99	Putty	£12.99						
Castles	£16.99	International Sports Chall.	£15.99	Ragnorak	£23.99						
Castles Data Disc	£11.99	Ishar II	£20.99	Railroad Tycoon	£23.99						
Castle of Dr Brain	£15.99	Jaguar XJ220	£16.99	Reach for the Skies	£19.99						
Chaos Engine	£16.99	James Pond III (Op Starfish)	£16.99	Red Baron	£15.99						
Championship Manager '93	£16.99	Jim Power *	£16.99	Red Zone	£15.99						
Chase HQ II	£8.99	J. White's Whirlwind	£16.99	Risky Woods	£16.99						
Chuck Rock II	£16.99	J. Barnes (1 Meg)	£15.99	Road Rash	£16.99						
Civilisation	£23.99	J. Madden's Football	£16.99	Robin Hood	£16.99						
C.Y.'s Air Combat	£20.99	KGB	£20.99	Robocod	£15.99						
Covert II	£19.99	Kick Off II (1 Meg)	£15.99	Robocod A1200	£14.99						
Cool World	£16.99	Kick Off II (.5 Meg)	£14.99	Robocod III	£14.99						
Combat Air Patrol	£18.99	Kid Gloves II	£16.99	Robo Sports	£20.99						
Conflict Korea	£23.99	Killing Game Show	£11.99	Rookies *	£17.99						
Contraptions *	£16.99	Kingdom of Germany *	£19.99	R-Type II	£14.99						
Cover Girl Poker	£14.99	Knight Mare	£11.99	Sabre Team	£16.99						
Covert Action	£23.99	Knight of the Sky	£23.99	Sabre Team 1200	£19.99						

AMIGA BUDGET TITLES UNDER £10	
3D Pool	£9.99
Adrenalyne	£9.99
Afterburner	£9.99
Altered Beast	£9.99
Arkanoid II	£9.99
ATOMINO	£9.99
Barbarian	£5.99
Barbarian II	£9.99
Batman The Movie	£9.99
Battlehawks 1942	£9.99
Blood Money	£9.99
Cabal	£9.99
California Games	£9.99
Carrier Command	£9.99
Celica GT4 Rally	£9.99
Centrefold Squares	£9.99
Chase HQ	£9.99
Cloud Kingdom	£9.99
Colossus Chess	£9.99
Combo Racer	£9.99
Conflict in Europe	£7.99
Continental Circus	£5.99
Deluxe Strip Poker	£9.99
Double Dragon I or II	£9.99
Dragon Ninja	£9.99
Duel	£9.99
Fantasy World Dizzy	£9.99
F16 Combat Pilot	£7.99
F.O.F.T.	£9.99
Gauntlet II	£9.99
Gem X	£9.99
Ghostbusters II	£9.99
Ghouls'n'Ghosts	£9.99
Golden Axe	£9.99
Hardball	£9.99
Head over Heels	£9.99
Hudson Hawk	£9.99
IK+	£9.99
Impossible Mission II	£9.99
Indy Last Crusade Graphic	£9.99
James Pond	£9.99
Jet Set Willy	£7.99
J.Khan Squash	£9.99
Kid Gloves	£5.99
Last Ninja II	£9.99
Last Ninja III	£7.99
Lombard RAC Rally	£9.99
Lotus Esprit	£9.99
Maniac Mansions	£9.99
Manic Miner	£7.99
M. Jackson Moonwalker	£9.99
Midnight Resistance	£9.99
Midwinter	£9.99

## Does anyone need 50 new fonts? Of course they do, as Nick Veitch discovers.

There are few experiences quite like your first time with a printer. The noxious gases escaping from your print head seem like a fragrant reminder of the pioneering spirit of Caxton. Was anyone ever unaffected by witnessing the transmission of data to the printed page for the first time?

But after a few sheets of A4 have shunted their way past the rollers you begin to notice how jaggy the fonts are and how you could probably have done better with a bottle of Quink and a Jersey Royal.

Well, with the advent of scaleable fonts, fewer and fewer people will be having that character forming experience. A scaleable font never lets you down. It is always in the correct proportion, its straights are straight, its curves are curvy.

The AGFA Compugraphic font standard has been adopted by Commodore from Workbench 2.0 upwards. This means that everyone has access to at least two scaleable fonts from Workbench, as well as the usual range of bitmapped fonts. These fonts automatically create bitmaps of the relevant size when requested to by an application. This is all very well for applications like *DPaint* and other packages where the results are only seen on the screen, but for printing slightly better control is required.

### THE SAME BUT DIFFERENT

The difference is that a screen resolution font is manufactured at a resolution of 72dpi, which looks great on screen. Translate one of these fonts to a 300dpi printer like a LaserJet, or even a 120dpi printer like a Citizen 120D and you will see that what looked good on the screen doesn't look so nice in the real world.

Having proper fonts isn't enough though – you need software which can intelligently render them at the correct size for output. All DTP packages can do this, including *Pagesetter 2*, but a number of word processors are capable of it too.

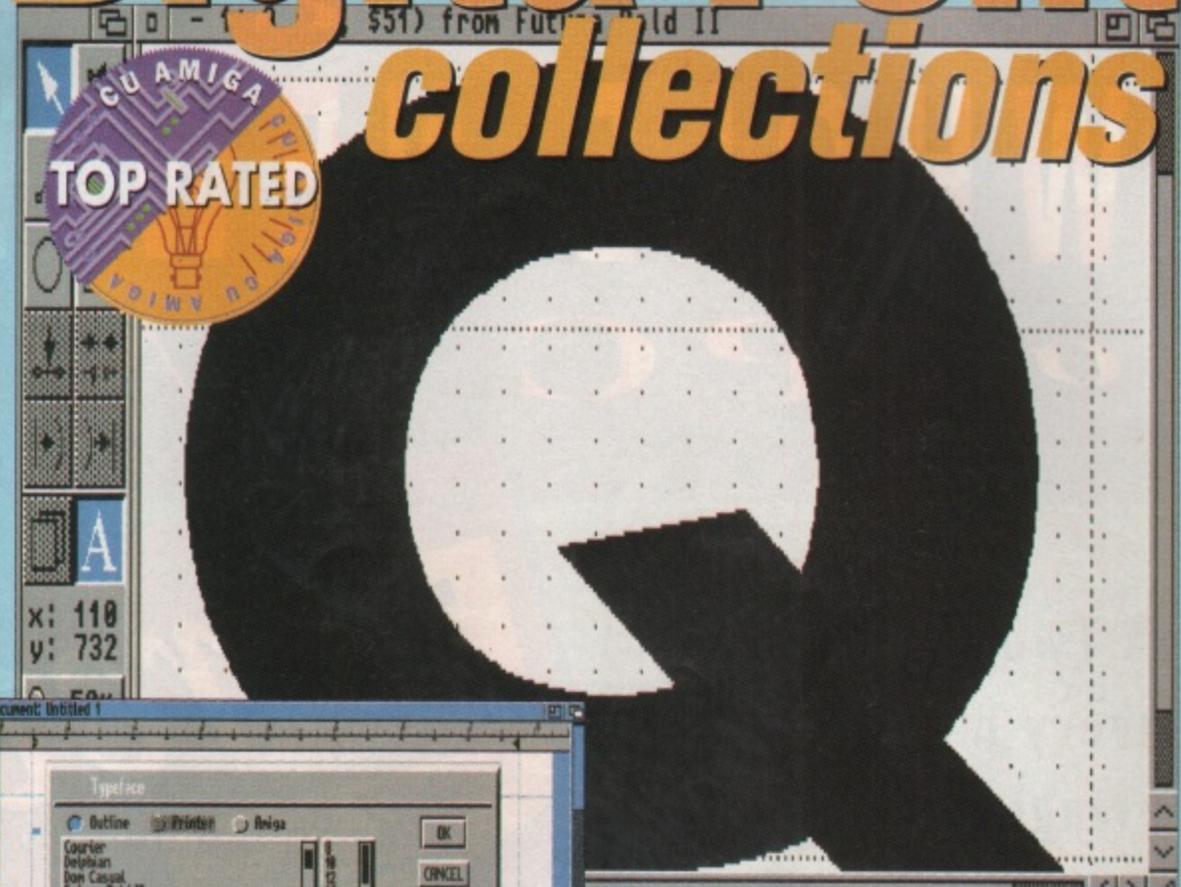
One of these is *Wordworth*, and its creators have decided to maximise this potential by coming out with a range of Compugraphic fonts designed for the average wordpro user.

### THE PACKS

The first of the packs, the Classic Collection contains some fonts which may be known elsewhere, the Goudys and the Futuras, but the average user may not have come across many of them before. The complete list is: Agfa Nadienne Medium, Goudy Oldstyle, Goudy Oldstyle Italic, Goudy Bold, Goudy Extrabold, Coronet, Delphian, Dom Casual, Futura BookII, Futura Book Italic II, Futura Bold II, Futura Bold Italic II, Garamond Antiqua, Garamond Kursiv, Gill Sans, Letraset University Roman, Lisbon Cursive, Marigold, Microstyle, Microstyle extended, Peignot Demibold and three symbol fonts. At £39.99 that works out at a little under £1.60 per font – not bad considering the quality of the merchandise.

The Pride and Presentation pack has only 20

# Digita Font collections



You can truly admire the quality of the faces in Typesmith – and convert them to other formats too. Wordworth supports all the fonts directly.

fonts: Antique Olive Compact, Branding Iron, Broadway, Brush, Carmine Tango, Poster Bodoni, Hobo medium, Murray Bold, Old English, Revue Shadow, Shannon Book, Thunderbird Extra Condensed, Times New Roman, Times New Roman Italic, Times New Roman Bold, Times New Roman Bold Italic, Uncial and a few symbol fonts.

The Reference Library contains 50 fonts, the popular ones from the other two sets, such as the Futuras and Nadiennes, as well as a few other families such as Avant Garde, Clarendon, and Univers.

The most curious aspect of the software is that the installer program asks to locate *Wordworth*. It is possible to use these fonts with other programs, but unless you really understand scaleable fonts and the Amiga, the instructions and software supplied are not going to help you out.

### CONCLUSION

The fonts are authentic Agfa fonts. You may not know the difference between a proper font which has been designed according to the standards and a lot of the CG format fonts which are going around the PD circuit and appearing in unofficial collections. Next time you load a PD font into *ProPage* and discover that the baselines are all screwed up it may not be the result of a notorious *ProPage* bug... it may be that the font you think is CG standard bends the rules too much. This isn't true of all PD or third party fonts, but it's a problem which often crops up. AGFA fonts do conform to the standard and programs which make use of them will have no problems. **CU**

## DIGITA FONT COLLECTIONS £29.99-£69.99

A500  A500+  A600  A1200   
A1500  A2000  A3000  A4000

Digita International, Black Horse House, Exmouth EX8 1JL.  
Tel: 0395 270273.

#### EASE OF USE ◆◆◆◆◆◆◆◆◆◆75%

Easy to install but no instructions on how to use these fonts with other programs.

#### VALUE FOR MONEY ◆◆◆◆◆◆◆◆◆◆80%

Not bargain bucket, but these are top-quality products.

#### EFFECTIVENESS ◆◆◆◆◆◆◆◆◆◆95%

As you would expect from industry standard AGFA fonts, they are well designed and function properly

#### FLEXIBILITY ◆◆◆◆◆◆◆◆◆◆80%

Even if you own *WWorth* and *Propage*, some fiddling about is necessary to get the fonts to work with both packages.

#### INNOVATION ◆◆◆◆◆◆◆◆◆◆72%

From the point of view of compiling sets, these fonts have been bundled with care.

Industry standard fonts at a realistic price

**OVERALL 91%**

## JARGON BUSTERS

- **Dpi** – Dots per inch. This is a method of measuring output resolution – the larger the number the better the result.
- **CG fonts** – Compugraphic fonts, licensed by AGFA, is one of a number of scaleable font formats. The most notable alternative is the Adobe Font standard.
- **Family** – a collection of fonts which all share inherent characteristics. E.g. Futura, Futura Bold and Futura Oblique are part of the Futura family.

# DISCOVER

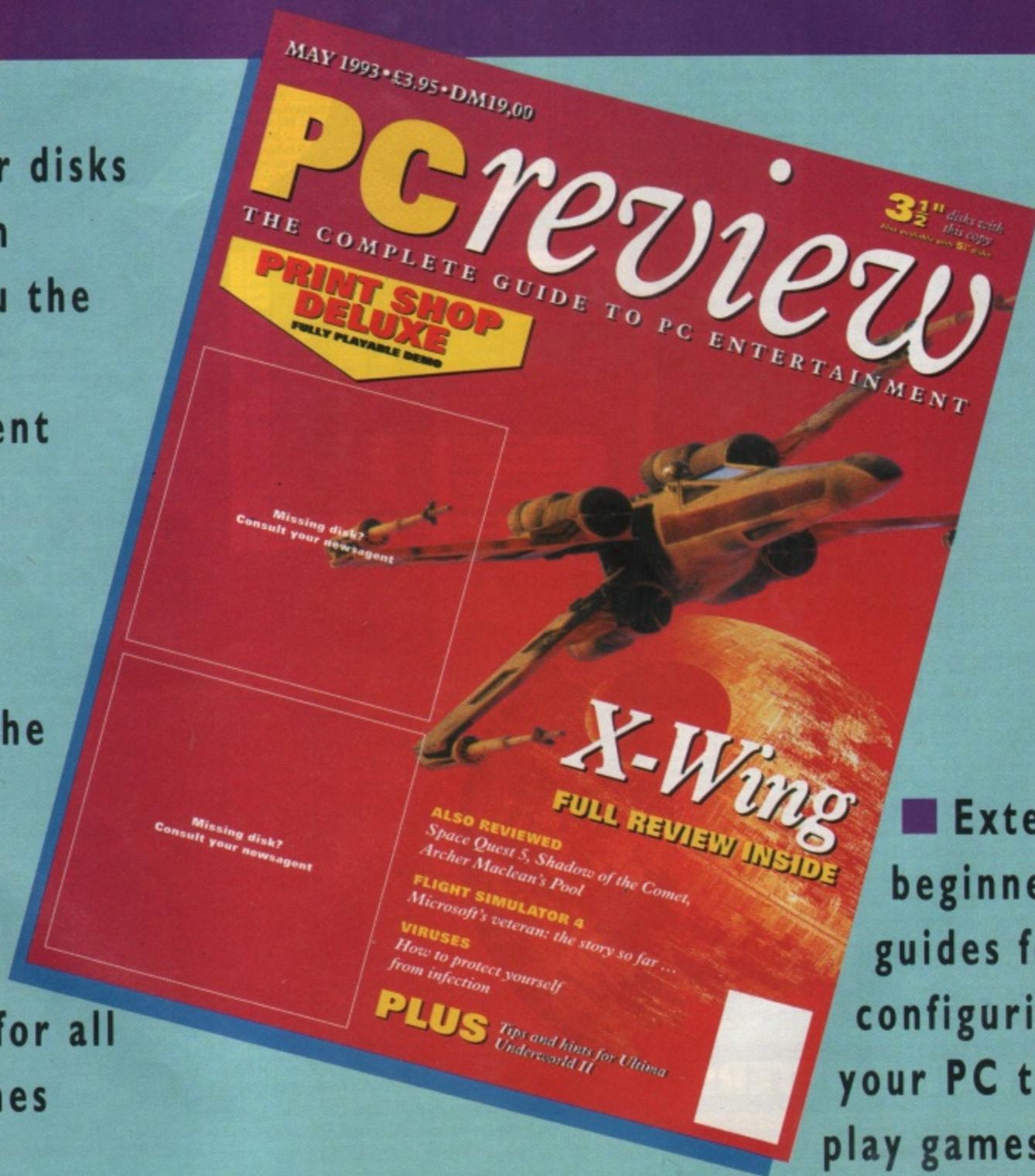
a

# WHOLE NEW WORLD of PC GAMES

■ Two cover disks every month bringing you the best in PC entertainment

■ The most in-depth, up-to-date reviews in the business

■ Players' guides, tips and cheats for all the top games



■ Extensive beginners' guides for configuring your PC to play games

Place an order with your newsagent now

# 3.5" DSDD DISKS 35 P EACH

QTY'S 100+

QTY'S BELOW 100 @ 37P EACH

100% GUARANTEED INCLUDES LABELS AND VAT

## ACCESSORIES AND JOYSTICKS

100 CAPACITY DISK BOX 3.5"	£ 4.75
50 CAPACITY DISK BOX 3.5"	£ 3.50
QUALITY MOUSE MAT	£ 2.50
ROBOSHIFT MSE/JST SWITCH	£12.95
3.5" CLEANING KIT	£ 1.95
AMIGA REP. MOUSE	£12.95
AMIGA EXTERNAL DRIVE	£52.95
A500 0.5MB RAM UPGRADE	£19.95
A500+ 1MB RAM UPGRADE	£34.95
A600 1MB UPGRADE	£39.95
MOUSE POCKET	£ 1.50
GREYSCALE SCANNER	£99.95
ACTION REPLAY MK III	£57.95

A500 DUST COVER	£ 3.50
A600 DUST COVER	£ 3.50
A1200 DUST COVER	£ 3.50
ROLL OF 200 LABELS	£ 1.95
ROLL OF 1000 LABELS	£ 7.95
TRACTOR FEED LABELS (1000)	£ 9.95
PYTHON 1M JOYSTICK	£ 9.95
MAVERICK 1M JOYSTICK	£12.95
COMP PRO. STAR J/STICK	£13.95
COMP PRO. EXTRA J/STICK	£13.95
CRUISER BLACK J/STICK	£10.95
CRUISER MULTI J/STICK	£10.95
SPEEDKING A/F J/STICK	£10.95
STARFIGHTER 3 PAD	£12.95
ZIPSTICK A/F JOYSTICK	£12.95
S/KING ANALOGUE J/STICK	£12.95

## PRINTER RIBBONS

STAR LC10/20 BLACK	£2.25
STAR LC10/20 COLOUR	£6.95
SATR LC200 BLACK	£2.95
STAR LC200 COLOUR	£7.95
STAR LC 24-10/200 BLACK	£2.95
STAR LC 24-10/200 COLOUR	£8.95
CITIZEN 120D BLACK	£2.75
CITIZEN SWIFT 9/24 BLACK	£2.75
CITIZEN SWIFT 9/24 COLOUR	£8.95
PANASONIC KXP 1080/90	£2.75
PANASONIC KXP 1123/24/80	£3.35
AMSTRAD PCW 8256/8512	£3.75
AMSTRAD PCW 9512	£2.95
AMSTRAD DMP 2000/3000	£2.75

# SPECIAL OFFER

200 x 3.5" DSDD DISKS PLUS 2 x 100 CAPACITY BOXES **£76.95**

## CABLES

AMIGA TO SCART	£9.95
MOUSE JOYSTICK EXT.	£5.95
JOYSTICK EXTENDER	£5.95
DISK DRIVE/MOD EX.	£9.95
NULL MODEM	£9.95
ANALOGUE ADAPTOR	£5.95
PARALLEL PTR. CABLE	£7.95

AT OUR RETAIL OUTLET WE HAVE TONS OF SOFTWARE ALL AT DISCOUNT PRICES

**AMIGA A500 PLUS PACK £199.95**

INCLUDES - MODULATOR PSU. MOUSE. MANUALS. DISKS. PYTHON 1M JOYSTICK

**AMIGA A1200 STAND ALONE £384.95**

INCLUDES - MODULATOR PSU. MOUSE. MANUALS. DISKS. PYTHON 1M JOYSTICK

3.5" HIGH DENSITY DISKS 58p for 100+ 60p BELOW 100

CHEQUES P/O'S TO:-  
MICROMANIA DEP'T CUA  
74 OLDBURY ROAD  
ROWLEY REGIS, WARLEY  
WEST MIDLANDS B65 0JS

PLEASE ADD £3.50 P&P PER ORDER

**ORDER HOTLINE**  
**021 559 1002**

CALLERS WELCOME AT OUR SHOWROOM

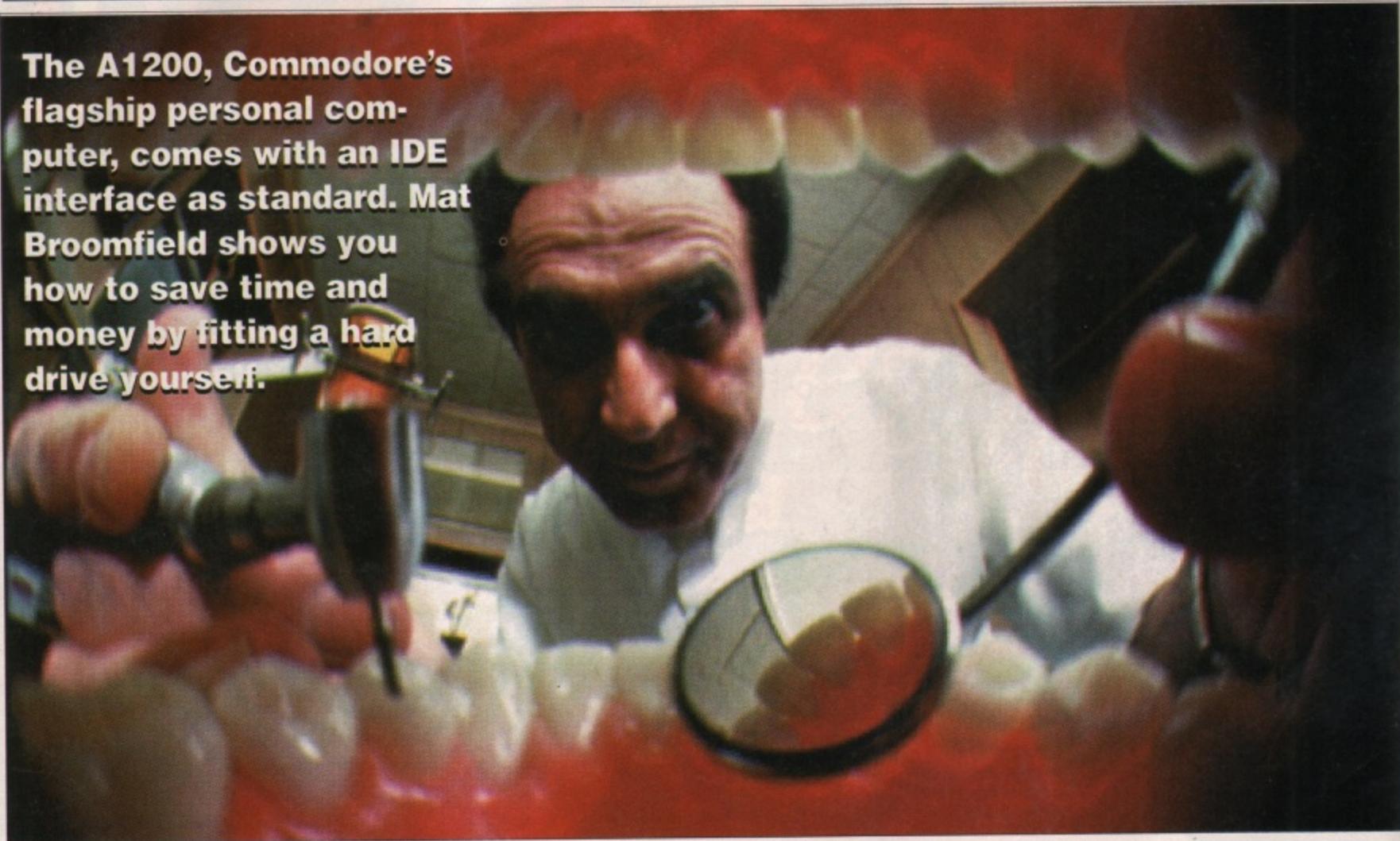


ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE E. & O.E.

# Fitting an A1200

## INTERNAL IDE HARD DRIVE

The A1200, Commodore's flagship personal computer, comes with an IDE interface as standard. Mat Broomfield shows you how to save time and money by fitting a hard drive yourself.



In the A1200 Commodore have produced a revolutionary computer which combined new processing power with 256,000 hi-resolution graphics, all in a neat package that retained a high level of compatibility with earlier Amigas.

The only real trouble with a state-of-the-art computer is that people want to write state-of-the-art software for it, and this requires increasingly large amounts of storage space.

For example, *Pro Page* comes on four disks, *Wordworth 2 AGA* comes on seven and *Infochannel* occupies an incredible 14 disks! It's clear that floppy disks are no longer the ideal storage medium – unless you have a passion for disk swapping that is!

Hard drives have become increasingly popular across all sections of the Amiga community thanks to companies such as GVP and Zydec, who have released drives that are cheap enough for most people to own. Commodore had already recognised the importance of hard drives by the time they released the A600 and this became the first mass-market machine to incorporate a hard drive interface as standard. It was only logical then, that they should also include such an interface in the A1200.

The A1200 comes supplied with a drive mount-

ing bay capable of accepting a two and a half inch drive, and an interface that allows you to connect any industry standard IDE drive. This is particularly useful as IDE drives are commonly used in portable PCs. This means that you can really shop around to find the best deal when purchasing a drive. However, if you are new to the world of hard drives, you may prefer to buy a pre-installed drive from an Amiga-specific retailer. This will save you the time and stress of having to format and prepare a drive, to say nothing of copying an appropriate version of Workbench onto the drive.

### A WORD TO THE WISE

Before we go any further, I should just mention that opening your A1200 will invalidate your guarantee. Although the installation is extremely easy to perform, this means that you will not be able to

claim free repairs from Commodore's authorised service engineers should a future problem arise regardless of the nature of this problem.

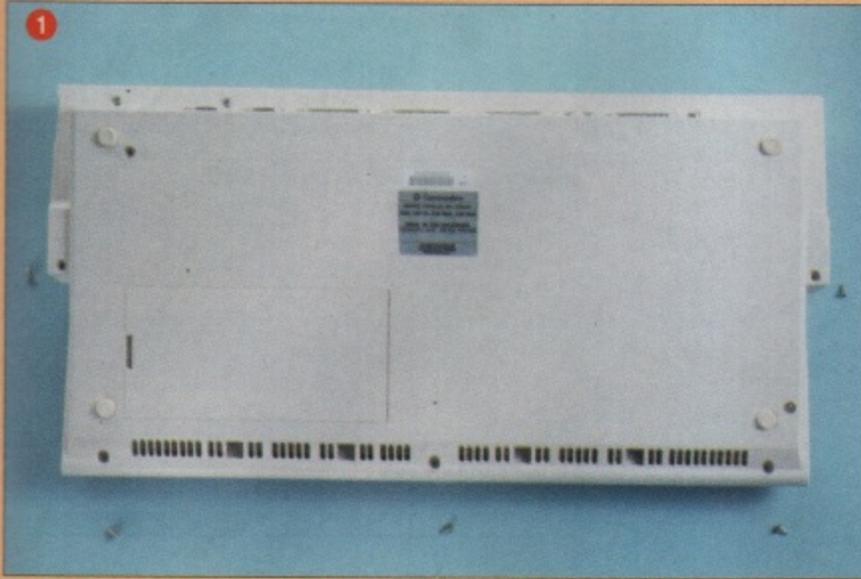
If you have any doubts at all, you may prefer to pay a Commodore authorised technician to install the drive for you. This will cost at least £15 extra, but you'll get peace of mind and your warranty will still be intact. Of course, I for one would prefer to fit my own drive and save the money, but it's entirely up to you...



## OPENING YOUR COMPUTER

Before you even consider opening your A1200, disconnect all leads and peripherals, starting with the power cable. You can leave internal expansions such as RAM or accelerator cards in place – we won't be going anywhere near that part of the computer.

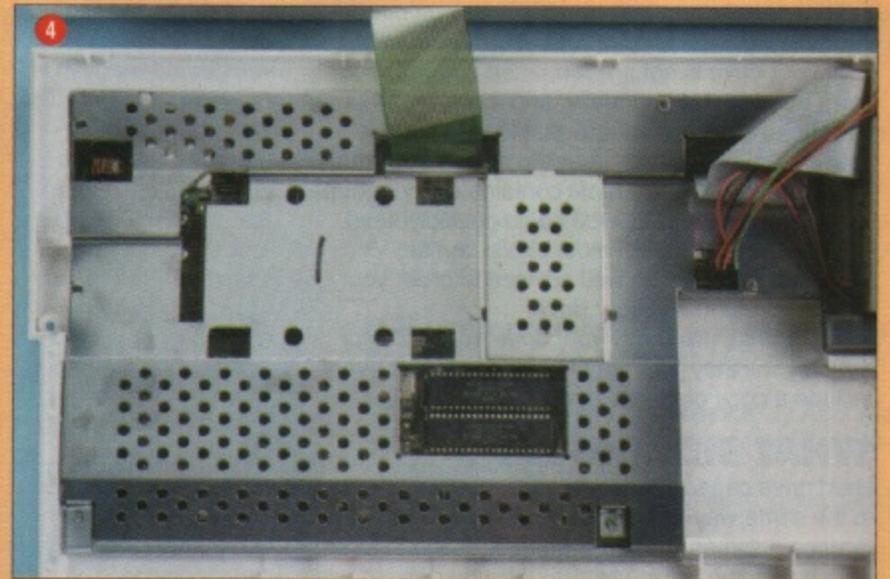
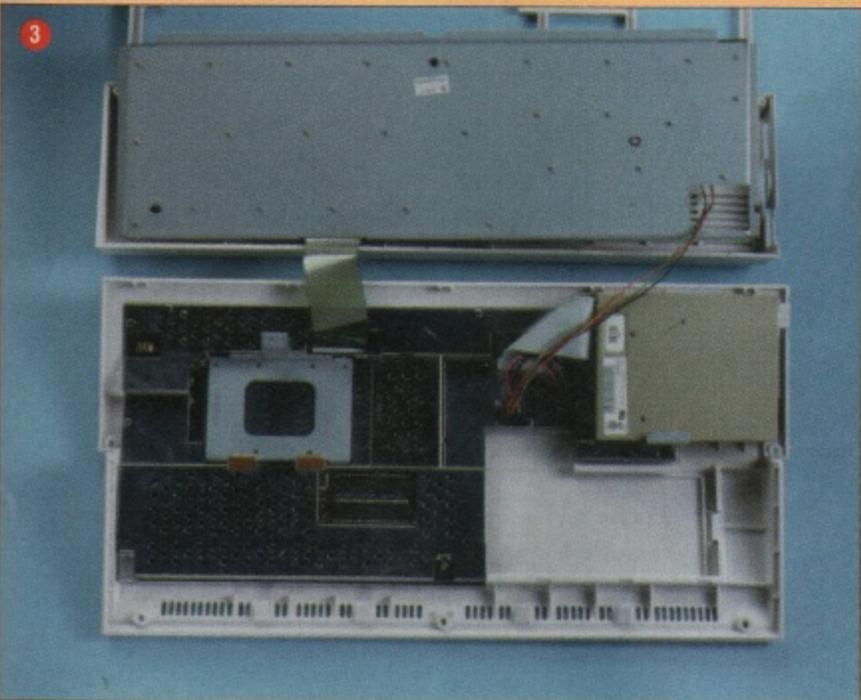
To perform the installation, you'll need a large flat area such as a table to open your computer on. I personally like to do this kind of thing on a carpeted floor because it stops the computer being scratched, and there's less distance for any pieces to fall. Obviously a shag pile carpet is no good because you risk losing screws in the pile!



**1** Having unplugged everything from your Amiga, place it upside down on your work surface. In case you haven't already noticed, the A1200 is housed in a two part plastic shell. The parts are held together by five screws which need to be removed. As you look at the underside of your computer, you'll see eight or nine screw heads. Don't go on an unscrewing frenzy at this point, some of the screws hold internal bits of the computer in place. Look at the picture and you'll see exactly where the appropriate screws can be found. The centre bottom screw should be covered by a silver sticker. This is the warranty seal and once it's been broken, you are no longer eligible for free repairs if the computer should happen to go wrong. If you're happy with that, break the seal and remove the screw. Once you've removed all five screws, put them somewhere safe till later.

**2** Holding both parts of the plastic A1200 shell, turn the computer over and place it back on your work surface. By gently lifting from its front corner, you should find that the top shell can now be lifted back quite easily. Be careful because you'll notice that the top shell is still connected to the computer by a small cluster of wires leading to a circuit board in the top shell. This circuit board contains three light emitting diodes (LEDs) whose purpose it is to indicate when the power supply is switched on, when the floppy drive is being accessed and, if you have one, when the hard drive is being accessed.

If you're careful, you should be able to lay the top shell down on your work surface behind the computer.



**3** Now that the plastic upper shell of your A1200 has been removed, you can see some of the computer's inner workings. At the back right you'll see the internal floppy drive which is attached to the machine via a flat grey ribbon cable. At this stage, the rest of the computer is obscured by the keyboard which is itself attached by means of a green track cable. Lift the keyboard up (being careful not to put tension on the track cable) and lie it down on the top shell to get it out of the way.

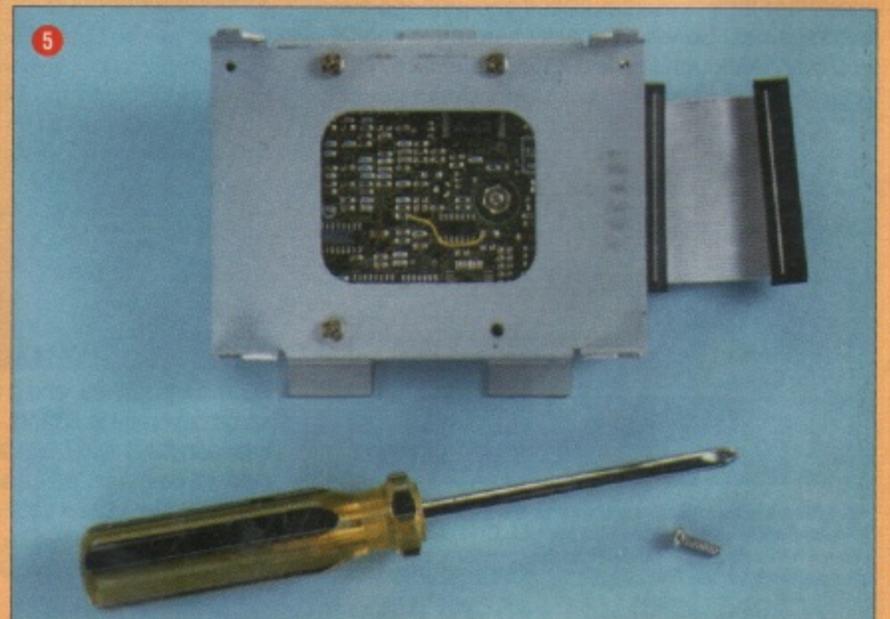
Looking at the computer again, you'll see that virtually all of it is encased in some sort of metal sheeting. This is called shielding and its purpose is to stop electrical emissions from the computer from interfering with other equipment that may be nearby. Although this isn't actually much of a problem (unless you use a lot of sensitive equipment) American laws governing RF (Radio Frequency) emissions makes it essential.

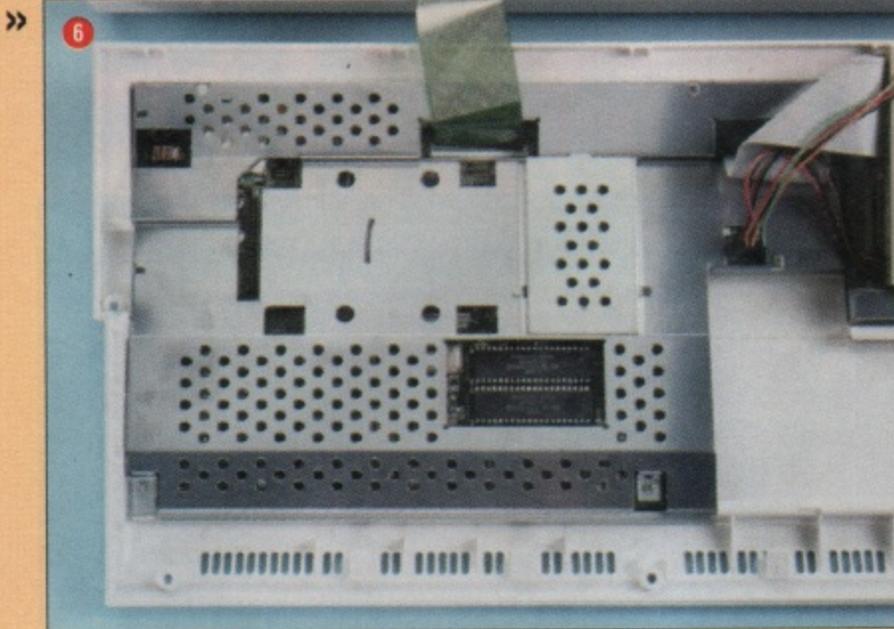
**4** You should see a heavy metal cradle towards the upper left side of the machine. This is the hard drive cradle, and you should now be able to appreciate why you're only supposed to use two and a half inch drives.

Remove the cradle from the computer – it simply rests on the main circuit board on four small legs.

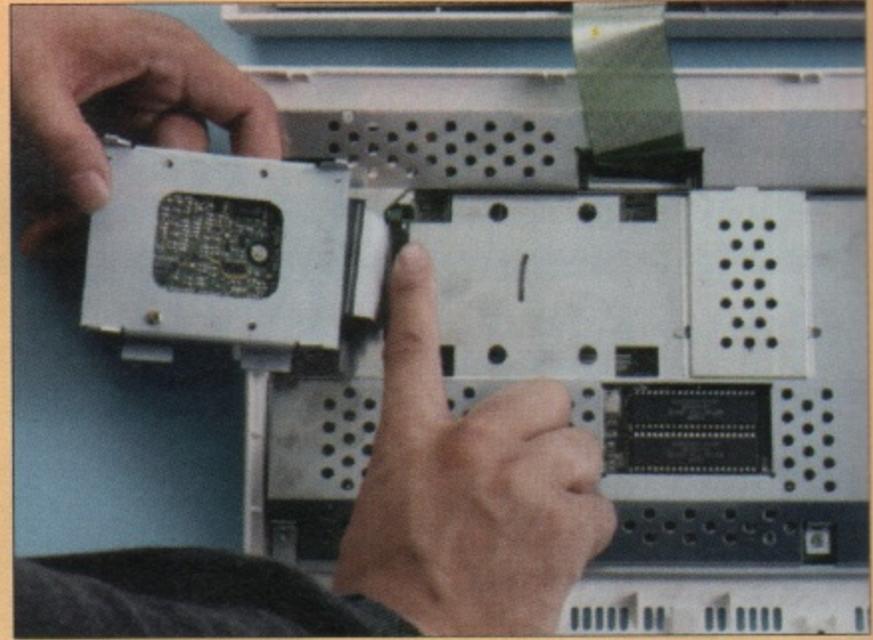
**5** Now is the time to attach your IDE drive to the cradle. Turn the cradle upside down so that its four legs are facing you and the three keyboard rests are face downwards. Turn the cradle so that the two keyboard rests are nearest you, and the single rest is at the top. Now unwrap your IDE drive. Although these drives are nowhere near as delicate as hard drives used to be, you should treat it with respect. That means, no banging or dropping it and try not to touch the exposed circuitry. Needless to say, using it as a replacement ball in a game of rugby is definitely out!

Holding the drive circuit side uppermost with the cable to the right, put the cradle on top of the drive. There are five holes in the cradle. Line up the four which are in a rectangle with their counterparts in the drive casing. Once the two are lined up, insert and tighten all four screws. The screws should have been supplied with your drive.





6 You should now locate the drive connector on your computer circuit board. It's slightly to the left of the space that the cradle came out of, can be recognised as lots of pins sticking up in a rectangular group. Holding the drive and cradle in the same position as you joined them in, put the drive plug onto the connector. Be careful to ensure that the connector and plug line



up properly. The plug should slide into position easily. Once you've inserted the drive plug flip the drive and cable over so that the drive is uppermost and the cable is not twisted, and return the cradle to its original position on the circuit board.

**PREPARING THE DRIVE**

If you purchase your hard drive from an Amiga dealer, there's a fair possibility that it will come preformatted and with software already installed on it. This software should include a version of Workbench 3 and may also include further IDE specific software for backing up and formatting the drive. If this is the case, then you are one of the lucky ones because you can begin using your drive immediately.

If your drive is not pre-formatted and prepped, you'll need to do it manually, and there are a number of pieces of software available to let you do this, but only one which is public domain. Written by Microbotics, *Hard Frame* contains every formatting and prepping utility you could possibly need. You can acquire it from most public domain libraries, and you'd be well advised to order your copy before you buy your drive!

Of course, if you buy your drive from Trilogic, not only will they pre-format it for you, they'll even include a copy of *Hard Frame* for nothing!

**WHAT SIZE DRIVE?**

Hard drive capacities are measured in megabytes in the same way as memory is. The important difference between the two is that information stored on a hard drive will stay there until you deliberately erase it. Information stored in memory will be lost as soon as you turn the power supply off.

Just about all hard drive users store a complete version of Workbench on their drives, and most will also store their favourite utilities and perhaps even some games. So what capacity hard drive should you buy? Although this is a difficult question, I

would say that there's virtually never a time when it's worth buying a 20Mb device; even if you can't imagine filling that much space now, you'll soon find a way once you get used to the idea of being a hard drive owner.

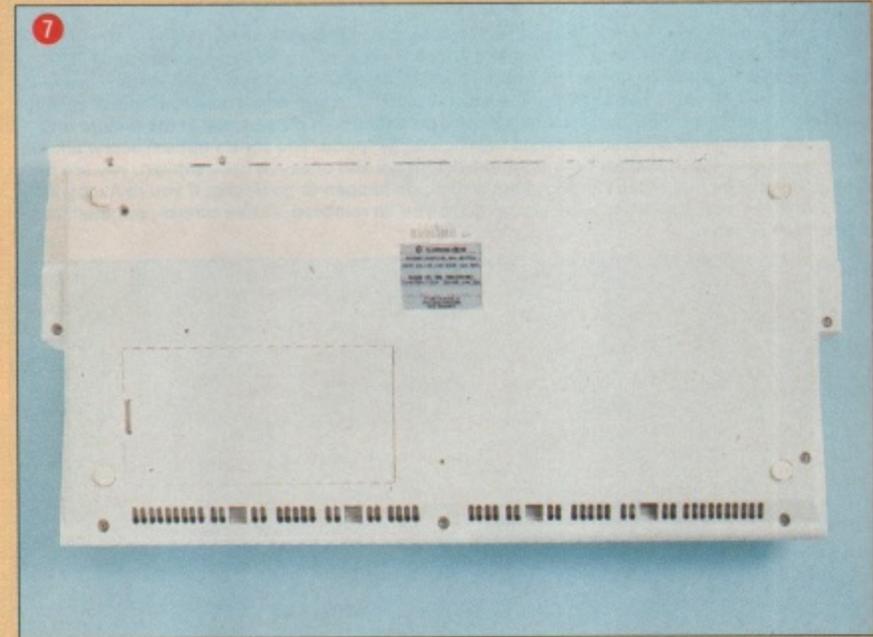
The first thing that you should do is list all of the hard drive installable games and utilities that you use or play regularly. Figure that you'll need about a megabyte of storage space per disk of software. This is not absolutely precise as disks don't hold a meg of data, but it's a good enough rule of thumb. Once you've arrived at a figure, you should double or treble it according to your financial resources. This allows for programs that you didn't know installed on hard drive, programs that you haven't bought yet and data from the programs you already use.

**INSURANCE**

As soon as you open your computer's case, you void the warranty thus forfeiting any repair/replacement rights that you may have had.

Trilogic (in conjunction with Cornhill Insurance) are able to offer you an insurance policy on any computer provided it's six months old or less. The all risk policy will cover you if you accidentally spill a cup of tea over the computer or damage it whilst installing a hard drive. It does not cover fire, theft, flood or lightning damage however - that's the job of a standard household policy.

A two-year policy covering computers worth up to £600 costs £27.99, and a three-year policy with the same coverage is £32.99. If your computer is worth between £601 and £999.99, two and three year policies will cost you £42.99 and £67.99 respectively. They will also collect your computer, install the hard drive and return it to you for £20 on top of the price of the drive. Phone Trilogic on 0274 691115.



7 Make sure that it's properly seated, then replace the keyboard and the computer's plastic top shell. Holding both parts of the shell firmly, turn the computer upside down and replace the screws. When doing this, please note that they are of the self-tapping variety, therefore you should be very careful not to overtighten them. Once the screws have been replaced, turn the computer back over, plug all of the leads and peripherals back in and that's it, your drive is installed!

**IF YOU DON'T OWN AN A1200**

If you're considering purchasing an A1200, and this article has made you think about buying a drive as well, it's worth noting that Trilogic offer a range of machines with drives pre-fitted that work out considerably cheaper than the two would cost separately.

For example, an A1200 with a 40 meg drive already fitted will cost you £499.99. To buy the two individually would cost £518.98. Even better yet, Trilogic also provide a two-year insurance free of charge, and are the only suppliers in Britain to offer this duration of coverage as standard. Even Commodore themselves only offer one year. **CU**



*Hard Frame* is the only drive prepping and installation software available under licence from Microbotics. Great care should be taken when using it because it has the capability of erasing all information from the disk.

**DISCLAIMER**

Although this installation is easy enough for even the Tory cabinet to perform, any mistakes can be potentially deadly to your computer or hard drive. Neither CU Amiga nor Trilogic can accept any responsibility whatsoever for any damages that may occur in the process of performing this installation. If you are in any doubt as to your ability to perform the installation, you may be better advised to pay a professional to do the job for you. Trilogic will do it for £15 plus postage and packing. Tel: 0274 691115.

Power Computing's innovative 4MB 32-bit memory expansion for the Amiga 1200 is now available. The PC1204 includes these many features:

**Zero Wait State** - Unlike some other expansions the PC1204 never leaves the processor waiting around for data, which means that your A1200 can run at its maximum speed.

**Ultra Fast FPU** - An optional maths co-processor speeds up intensive calculations. A 50MHz chip will speed up operations by up to fifty times.

**Real-Time Battery Backed Clock** - Allows files to be date-stamped with the correct time and date so that you know exactly when they were created.

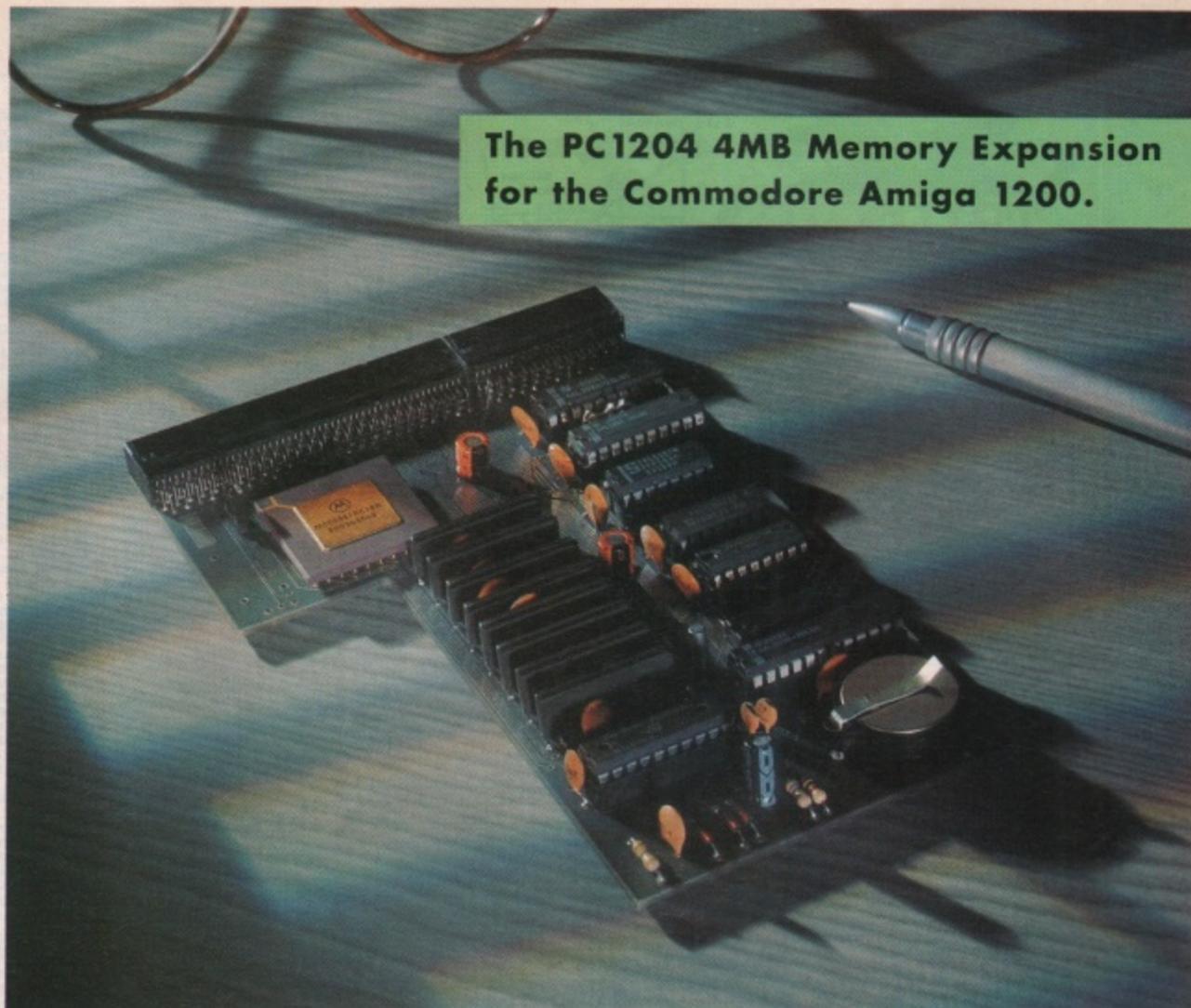
**Low Power** - High density RAMs means low power consumption.

**Easy To Fit** - Fitted in minutes without the need to remove the computer's case.

**Optional FPU Disable Switch** - Disable the FPU instantly for software that will not run with a maths co-processor installed.

	Power PC1204	A leading competitor
Speed Vs standard A600	4.84 times faster	4.79 times faster
Speed Vs standard A1200	2.19 times faster	2.17 times faster
CPU MIPS	2.96	2.93

- PC1204 4MB with clock, no FPU Processor **£185.95**
- PC1204 4MB with clock, 20MHz 68881 FPU **£219.95**
- PC1204 4MB with clock, 25MHz 68882 FPU **£279.95**
- PC1204 4MB with clock, 33MHz 68882 FPU **£289.95**
- PC1204 4MB with clock, 40MHz 68882 FPU **£299.95**
- PC1204 4MB with clock, 50MHz 68882 FPU **£339.95**



## The PC1204 4MB Memory Expansion for the Commodore Amiga 1200.

## The XL 1.76MB Drive for the Commodore Amiga.



Power Computing's XL 1.76MB Drive\* for any Commodore Amiga is now available. The XL Drive includes these many features:

**Formats to 1.76MB** - Using high density disks you can fit a massive 1.76MB on each disk.

**Acts as a standard drive** - Insert an 880K Amiga disk and the drive behaves like any other Amiga drive.

**Fully compatible** - Will read and write disks written on an Amiga 4000 internal high density drive.

**Compatible with PC disks\*** - Also read and write high density PC disks using a suitable device driver.

**Compact size** - No larger than a standard 880K floppy disk drive.

**High quality design** - Uses a high quality Sony high density mechanism.

**Free** - Box of 10 3.5" Polaroid high density disks.

Comes complete with disable switch and through port.



**XL Drive £99.95**

\*Requires Kickstart 2 or above. \*Requires Workbench 2.1 or above.

48Hr delivery **£2.50**, 24Hr delivery **£4.50**  
 Parcel Post delivery **£1** (Orders under £50 & UK mainland only)  
 Specifications and prices subject to change without notice  
 All Trademarks acknowledged. VAT included



Power Computing Ltd  
 Unit 8 Railton Road Woburn Road Industrial Estate  
 Kempston Bedford MK42 7PN  
**Tel 0234 843388 Fax 0234 840234**

**OPEN SUNDAY 10-3PM.**

**TRIOLOGIC**

City centre  
Odsal Top  
Railway Bridges  
New Works Rd  
A638 Bradford  
M606  
M62 Hull  
A58 Leeds  
A58 Halifax  
M62 Manchestr  
A641 Huddersfield

**We are here.**

UNIT 1,  
253 NEW WORKS RD,  
BRADFORD, UK,  
BD12 0QP Est 1984  
FAX 0274 600150

**SALES**  
0274 69 11 15  
OPEN EVERY DAY

**ACCESS VISA  
SWITCH DELTA  
CONNECT AMEX\***

**FAST PROFESSIONAL MAILORDER SERVICE**  
**SAMEDAY DESPATCH\***

1) Order by phone using your credit, charge, or debit card.  
2) Order by Mail - sending cheque bankers draft or postal orders payable to TRIOLOGIC.  
3) Please add part postage & packing of £1.00 to small orders under £100 or £2.00 to small orders over £100. Large/heavy or fragile items sent by overnight carrier only +£5.50. Overnight carrier - any order +£5.50 UK Mainland only. Scottish Highlands £7.50; N. IRELAND +£10.00; EIRE +£20.00 Saturday delivery - add £12.00 (Not available to Scottish Highlands.) Goods remain our property until paid for in full.

**EXPORT ORDERS WELCOME**  
None EC countries - deduct 15% & add carriage. For EC Countries - UK vat must be charged from 1-1-93. Please contact us for carriage charges.  
\*AMEX SUBJECT TO 2% SURCHARGE  
\*Subject to goods being in stock.

**MICE & JOYSTICKS**

**ULTIMATE PRO ANALOGUE JOYSTICK NOW £19.99**  
Superb low cost smooth action Analogue joystick with fire button on the end, plus pretable X & Y trimmers, Microswitch fire buttons; autofire (not all games support autofire) Ideal for flight simulators etc (Not all games support analogue joysticks)

**MOUSE / JOYSTICK PORT SWITCH £12.99**  
• Has sockets for mouse & joystick.  
• Push button selects mouse or joystick.  
• Uses no power unlike other types.  
• Saves wear & tear on mouse port.

**AMIGA TRACKBALL** ..... £34.99  
**BUDGET REPLACEMENT MOUSE** ..... £15.99  
**OPTICAL MOUSE** ..... £37.99  
**PYTHON JOYSTICK** ..... £9.99  
**TOPSTAR JOYSTICK** ..... £19.99  
**MEGASTAR JOYSTICK** ..... £21.99  
**SUPERSTAR JOYSTICK** ..... £13.99  
**IPSTICK AUTOFIRE** ..... £12.99  
**SPEEKLING AUTOFIRE** ..... £11.99  
**SPEEKLING ANALOGUE** ..... £14.99  
**PRO 5000 BLACK** ..... £12.99  
**SPEEKLING ANALOGUE** ..... £11.99  
**MOUSE MAT** ..... £3.99  
**MOUSE HOLDER** ..... £1.99  
**JOYSTICK EXTENSION LEAD (3m)** ..... £7.99  
**2 PLAYER ADAPTORS** ..... £7.99  
**PC ANALOGUE JOYSTICK CONVERTER** ..... £7.99  
Use PC analogue joystick on Amiga.  
**PC ANALOGUE JOYSTICK** ..... £14.99

**DISKS & BOXES**

**TOP QUALITY BLANK DS/DDS 3.5" DISKS (DYSAN) IN BOXES OF 10 WITH LABELS.**

1 PACK OF 10 IN STORAGE BOX ..... £6.99  
2 PACKS OF 10 IN STORAGE BOX ..... £11.99  
5 PACKS OF 10 IN STORAGE BOX ..... £29.99  
10 PACKS OF 10 IN STORAGE BOX ..... £54.99  
1PK OF 10 DS/HD 3.5" DISKS ..... £11.99  
ROLL OF 1000 DISK LABELS ..... £12.99

**3.5" LOCKABLE DISK BOXES ETC.**

HOLDS 40/50 DISKS HINGED LID ..... £6.99  
HOLDS 80 DISKS HINGED LID ..... £7.99  
HOLDS 100 DISKS HINGED LID ..... £8.99  
HOLDS 240 DISKS DRAWER TYPE ..... £25.99  
HANDY 20 SIZE FLIP TOP BOX ..... £1.99  
3.5" DRIVE HEAD CLEANER ..... £3.99

**BOOKS & VIDEOS**

\* DISK INCLUDED FREE WITH THESE BOOKS

AMIGA FOR BEGINNERS ..... £10.99\*  
AMIGA BASIC INSIDE & OUT ..... £21.99  
AMIGA GRAPHICS ..... £21.99  
C FOR BEGINNERS ..... £17.95  
DESKTOP VIDEO ..... £18.95\*  
GRAPHICS INSIDE & OUT ..... £31.95  
MAKING MUSIC ON THE AMIGA ..... £27.99\*  
BEST OF AMIGA TRICKS N TIPS ..... £15.00\*\*

(\*SPECIAL PRICE TO CLEAR)  
USER INTERFACE MANUAL ..... £18.99  
HARDWARE REF MANUAL ..... £21.95  
ROM KERNEL REF MANUALS - EACH £28.95

**VIDEOS**

MIDI & MUSIC VIDEO ..... £14.99  
DELUXE PAINT 4 VIDEO ..... £14.99  
ADVANCED DELUXE PAINT 4 VIDEO ..... £14.99

**DIGITISERS, GENLOCKS, SCANNERS**

**GVP GENLOCK NEW LOW PRICE £294.99**  
Composite or S-video inputs & outputs; Keyer capability; Built in RGB splitter for use with video Digitisers; audio input switching. Software & Amex controlled. SUPERFI

**ROCGEN PLUS £139.99**  
A superb value Genlock with overlay & fader controls.

**ROC KEY Chroma keying unit £269.99**  
The ideal partner for the Rocgen Plus.

VIDI 12 FRAMEGRABBER & RGB SPLITTER ..... £84.99  
VIDI 12 + TAKE 2 + MEGAMIX MASTER ..... £164.99  
VIDEOMASTER SOUND & VIDEO DIGITISER ..... £54.99  
SUPERPIC COLOUR FRAME GRABBER & GENLOCK ..... £499.99  
COLOURPIC COLOUR FRAME GRABBER/DIGITISER ..... £493.99  
RENDALE SUPER 8902 SVHS GENLOCK ..... £179.99  
RENDALE 8802PMC GENLOCK w/it faders & key modes ..... £174.99  
RENDALE 8802 GENLOCK - LOW COST HI QUALITY ..... £134.99  
GVP V 24 24BIT GRAPHICS CARD for A1500/2000 ..... £99.99  
CM DISPLAY ENHANCER FOR A1500/2000 BARGAIN ..... £99.99  
DC TV ..... £149.99

**WICAM STEREO TV TUNER £154.99**  
CONVERT YOUR 8833 OR 1084 INTO A STEREO TV WITH FULL REMOTE CONTROL. SUPERB PICTURE & SOUND.

**HAND SCANNER b/w upto 400dpi £115.99**

**ALL PRICES INCLUDE VAT**

**SPECIAL PRODUCTS**

**SUPERFI 2 STEREO SYSTEM - HI FI QUALITY**  
A VERY HIGH QUALITY, PROFESSIONAL, & POWERFUL STEREO BOOKSHELF SPEAKER SYSTEM.

Not a cheap 'gimmicky' toy. Perfect for use with most Computers, inc PC sound cards, keyboards, Stereo VCRs, Satellite Systems & Walkmans. Built-in mains supply - no external adaptors req'd. It has Bass, treble & volume controls & comes with connecting leads.

ONLY £54.99 THIS MONTH - £49.99

**20 WATTS/CH**  
• 20WATT /CHANNEL  
• BASS CONTROL  
• TREBLE CONTROL  
• VOLUME CONTROL  
• 32-20KHZ RESPONSE  
• PHONO INPUT SETS  
• CONNECTING LEAD

**AMIGA ROM SWITCH FOR A500/500+1500 NOW £24.99**  
Our Keyboard operated Two way Rom switch enables you to use either of 2 Workbench roms. To switch over, just hold down Control/Amiga keys until you hear a beep. (Release them before the beep to 'warm start' with the current rom. Fits A500/500+/1500/2000. Fitting invalidates computer warranty unless fitted by us. Fitting charge £15.00 Please state which you have Amiga when ordering.

**ROM SWITCH & 1.3 ROM only £54.99**      **ROM SWITCH & 2.04 ROM only £59.99**

**3 PORT PRO-MIDI INTERFACE £24.99**  
Our unique 3 port Midi interface has In, Out & Thru sockets plus two additional switchable Out or Thru sockets for ingenious versatility. So you can have 1 in, 1 out & 3 thru, or 1 in, 1 thru & 3 out, or 1 in, 2 out & 2 thru!

**STEREO SAMPLER 2 NOW ONLY £34.99**  
Our Superb sounding STEREO SAMPLER 2 uses an expansive state of the art A/D chip which samples so fast, it captures every detail of the sound. Easily adjusted level control, connecting lead supplied. Fully compatible with all popular sampling software. FREE STEREO SAMPLING SOFTWARE

Extra Midi leads 1.2m - £1.99 3m - £2.99

**AMIGA PRINTER PORT EXPANDERS**  
FOR USE WITH PRINTERS, SAMPLERS, VIDEO DIGITISERS, SCANNERS ETC

These compact fully switched Expansion boxes enable you to connect upto four peripherals to your computer. The connectors on the units are the same type as the Computer's printer connector so your peripherals just plug straight in. A connecting lead worth £10.99 - 2m for use with printers only, or 300mm long if used with the Expander to the computer. All 25 connections are switched. 36 way Printer shavers are also available - share one printer with 2 or more computers - phone for prices.

**2way - £24.99 inc cable**      **3way - £27.99 inc cable**      **4way - £29.99 inc cable**

**TWO WAY SCART SWITCH £17.99**  
This compact switch box converts most TVs & TV monitors to DUAL SCART INPUT. Thus you can connect your Amiga or your VCR to the one scart socket on your TV. A push button switch selects input one or input two - ie VCR or computer. RGB, Audio & Video inputs are switched. Also suitable for Satellite receivers.

**SPARES, ACCESSORIES & MISC ITEMS**

KICKSTART 1.3 ROM ..... £31.99  
KICKSTART 2.04 ROM ..... £39.99  
TV MODULATOR (exchange) ..... £19.99  
FATTER AGNUS 8372A ..... £39.99  
SUPER DENISE ..... £39.99  
GARY ..... £39.99  
8520A I/O CHIP ..... £15.99  
1MBG x 9 SIMMS ..... £34.99  
4MBG x 9 SIMMS ..... £139.99  
256Kx4 DRAMS for A590 1mbg ..... £34.99  
AMIGA INTERNAL DRIVE ..... £59.99  
MATSIN SUPPRESSOR BLOCK 0WAY ..... £12.99  
UPGRADED A500 POWER PACK ..... £44.99  
A590 REPLACEMENT PSU ..... £49.99  
GVP REPLACEMENT PSU ..... £49.99  
GVP GENUINE PSU ..... £69.95  
EXTERNAL DISK DRIVE PSU ..... £29.99

\* Compatible type - Genuine replacements available - PCA

**AMIGA SERVICE DEPT**  
AMIGA 500 REPAIR ..... £49.99  
Includes parts & labour, excludes psu, disk drive & keyboard faults. **PAST TURNAROUND**  
F15 MODULATOR REPAIR ..... £19.99 **NEW**  
REPLACE INTERNAL DRIVE ..... £69.99 inc drive  
A500 PSU REPAIR\* ..... £29.99  
FIT HARD DRIVE TO 600/1200 ..... £15.00\*  
(NO charge if fitted at time of purchase.)  
Add £10 for same day turnaround (by prior arrangement only). \*Where spare parts available.  
Call in or send by insured post enclosing return carriage - see 'How to Order' for carriage charges.

**MASTERING AMIGA AREXX** ..... £21.95  
**MASTERING AMIGA DOS 2 VOL 1** ..... £21.95  
**MASTERING AMIGA DOS 2 VOL 2** ..... £19.95  
**MASTERING WORKBENCH 2** ..... £19.95  
**MASTERING AMICA C** ..... £19.95  
**MASTERING AMICA PRIMERS** ..... £19.95  
**MASTERING AMIGA ASSEMBLER** ..... £24.95  
**MASTERING AMIGA SYSTEM** ..... £29.95  
**MASTERING AMIGA AMKS** ..... £19.95  
**MASTERING AMIGA - BEGINNERS** ..... £19.95  
**A600 INSIDER GUIDE** ..... £14.95  
**A1200 INSIDER GUIDE** ..... £14.95

**UNDERSTANDING IMAGINE 2 (includes disk) £29.95**

**BOOK SALE (Mostly Amiga Basic books)**  
ELEMENTARY AMIGA BASIC ..... £5.00  
INSIDE AMIGA GRAPHICS ..... £5.00  
1ST BOOK OF THE AMIGA ..... £5.00  
2ND BOOK OF THE AMIGA ..... £5.00  
AMIGA APPLICATIONS ..... £5.00

**SAVE £££ WITH OUR SUMMER SPECIALS\***

ADVANTAGE ..... £59.99  
PAGESTREAM 2.22 ..... £69.99  
WORDWORTH 2AGA ..... £74.99  
DISKMASTER II ..... £34.99  
HOME ACCOUNTS 2 ..... £34.99  
MUSIC X 1.1 ..... £19.99  
QUARTET ..... £29.99  
SUPERJAM ..... £39.99  
SCALA 500 ..... £69.99  
AUDIO ENGINEER 2 ..... £159.99  
SOURCEMASTER ..... £39.99  
SYNTHIA PRO ..... £69.99

\* WHILE STOCKS LAST

**LOOK OUT FOR OUR OTHER BIG PRICE REDUCTIONS ON....**

**MIRACLE KEYBOARDS & 2 FREE SONG COLLECTIONS**

**GVP A500 HARD DRIVES**

**GVP G-LOCK GENLOCK**

**ROCLITE RF382 3.5" EXTERNAL DISK DRIVES**

**40, 52 & 105MEG SCSI 3.5" HARD DRIVES.**  
UPGRADE YOU A590 OR GVP FROM £139.99

**CALLERS WELCOME - OPEN 7 DAYS.**  
Open Mon Fri 8am-6pm, Sat 8am-4pm. OPEN SUN 10-3pm  
We're easy to find, just 1.5 miles from the M62. Easy parking. Leave M62 at junction 26, take A638 to Bradford, uphill, after about 1.5 miles, past the park & just over a railway bridge, turn left onto New Works Rd. We're on the left 40yds further on opposite a PO mail box.  
Please note to avoid disappointment: Our technical & customer services personnel are not available to answer your queries or assist with any problems on Sundays.

**EVERYTHING YOU NEED FOR YOUR AMIGA AT LOW PRICES**

**BACKUP UTILITIES**

**X COPY PRO NEW £34.99**  
Latest version - complete with NEW Mk2 Automatic Cyclone external drive adaptor. Highly successful.

**Mk1 CYCLONE ADAPTOR £12.99**

Mk1. Making backups without the permission of the copyright holder is illegal.

**EDUCATIONAL**

**MANY TITLES REDUCED**

ADI ENGLISH; MATHS; FRENCH ..... £18.99  
ADI JUNIOR RANGE ..... £14.99  
ANSWERBACK QUIZZES - EACH ..... £14.99  
ANSWERBACK JUNIOR/SENIOR ..... £14.99  
BETTER MATHS (12-16) ..... £17.99  
BETTER SPELLING (8+) ..... £17.99  
DATAWORD ..... £14.99  
DISTANT SUNS V4.1 ..... £52.99  
PUN SCHOOL RANGE ..... £17.99  
PUN SCHOOL SPECIALS ..... £18.99  
FRENCH MISTRESS ..... £15.99  
GERMAN MASTER ..... £15.99  
ITALIAN TUTOR ..... £15.99  
JUNIOR TYPIST (5-12) ..... £17.99  
KIDS ACADEMY: PAINT FOR 4/10 ..... £14.99  
KIDS ACADEMY: SHOPPIN BASKET ..... £14.99  
KIDS ACADEMY: WHICH, WHERE 4/8 ..... £14.99  
LETS SPELL SERIES ..... £14.99  
LINDWOOD LANGUAGES ..... £21.99  
MATHS TALK (5-13YRS) ..... £18.99  
MATHS TALK FRACTIONS ..... £18.99  
MATHS MANIA ..... £17.99  
MATHS ADVENTURE ..... £19.99  
MICRO MATHS ..... £18.99  
MICRO FRENCH ..... £18.99  
MICRO ENGLISH ..... £18.99  
MICRO GERMAN ..... £18.99  
MICRO SCIENCE ..... £18.99  
MEGA MATHS ..... £18.99  
MONEY MATTERS (4-7YRS) ..... £14.99  
NOODY'S PLAYTIME ..... £18.99  
PLAYDAYS ..... £18.99  
PUZZLE BOOKS 1 & 2 ..... £14.99  
READING WRITING COURSE ..... £18.99  
RHYMING WORDBOOK ..... £9.99  
SPANISH TUTOR ..... £15.99  
TARGET MATHS (4+) ..... £16.99  
VOYAGER 1.1 ..... £54.99

**BARGAIN PRICE**

**EDUCATIONAL COMPENDIUM 6** ..... £24.99  
• WORDS & NUMBERS • KID'S TYPE  
• GAME SET & MATCH • WEATHER WATCHER  
• WHAT IS IT WHERE • CALENDAR QUIZ  
IS IT ?

**'MIRACLE' KEYBOARD**  
"Teaches you how to play"  
Includes 4 octave FULL SIZE touch sensitive Keyboard, with Midi interface built-in. + 100 instrument sounds & effects. + Artificial intelligence software for the Amiga which customises the lessons to each individual.

**THIS MONTH ONLY £249.99 SAVE £50.00**

**TOP 50 GAMES**

A320 AIRBUS ..... £25.99  
A TRAIN ..... £25.99  
ANCIENT ART OF WARS IN STRIPS ..... £25.99  
ABANDONED PLACES 2 ..... £18.99  
ARCHER MACLEANS POOL ..... £18.99  
ALIEN BREED SPIC ED ..... £18.99  
ASSASSIN ..... £18.99  
BEAVERS ..... £19.99  
BOY BLOMS ..... £25.99  
B17 FLYING Fortress ..... £25.99  
CAMPAIGN ..... £21.99  
CHAS ENGINE ..... £12.99  
CHESSMASTER 2100 ..... £18.99  
CHUCK BOX 2 ..... £24.99  
CIVILISATION ..... £18.99  
CREATURES ..... £18.99  
CRASH CARS III ..... £18.99  
COMBAT AIR PATROL NEW ..... £22.99  
CURSE OF ENCHANTIA ..... £25.99  
CYTRON ..... £21.99  
DARKSEED ..... £26.99  
DESERT STRIKE NEW ..... £21.99  
FLASHBACK ..... £18.99  
FORMULA 1 GRAND PRIX ..... £25.99  
F15 STRIKE EAGLE II ..... £25.99  
GRAHAM GOODES WORLD CRICKET ..... £18.99  
GOBLIINS 2 ..... £21.99  
HARRIER ASSAULT ..... £25.99  
HISTORY LINE ..... £24.99  
HUMANS ..... £21.99  
HUMANS 2 ..... £21.99  
INDIANA JONES & PATE OF ATLANTA ..... £26.99  
INDIANA JONES - ADVENTURE ..... £26.99  
JIMMY WHITE'S SNOOKER ..... £21.99  
KOB ..... £22.99  
KNIGHTS OF THE SKY ..... £26.99  
LETHAL WEAPON ..... £18.99  
LEGEND OF KYRANIA ..... £25.99  
LEGENDS OF VALOOR ..... £29.99  
LEMMINGS 2 ..... £21.99  
LION HEART ..... £20.99  
LINKS ..... £18.99  
LINKS COURSES ..... £17.99  
LOTUS TURBO 3 ..... £26.99  
MONKEY ISLAND 2 ..... £25.99  
NICKY PALDO'S CHAMPION GOLF ..... £21.99  
NIGEL HANSELLS WORLD CHAMP ..... £21.99  
PGA TOUR GOLF ..... £18.99  
PIRATES ..... £24.99  
POPULOUS 2 PLUS REDUCED ..... £21.99  
PREMIERE ..... £18.99  
PREMIERE MANAGER ..... £18.99  
PROJECT X ..... £18.99  
RAMPART ..... £18.99  
REACH FOR THE SKIES ..... £22.99  
RED BONE ..... £18.99  
ROAD RASH ..... £18.99  
ROBOPORT ..... £21.99  
ROME AD '92 ..... £21.99  
SENSIBLE SOCCER 92/93 ..... £18.99  
SIM ANT ..... £25.99  
SIM EARTH ..... £25.99

**ENHANCED 1200 GAMES**

BOUL 1200 ..... £19.99  
TROLLS ..... £18.99  
WING COMMANDER ..... £26.99  
SLEEPWALKER 1200 ..... £25.99  
NIGEL HANSELLS 1200 ..... £21.99

**MORE AMIGA GAMES...**

SHADOW OF THE BEAST III ..... £21.99  
SPORTSMAN ..... £21.99  
STREET FIGHTER II ..... £19.99  
SLEEPWALKER II ..... £25.99  
STRIKER ..... £18.99  
SHUTTLE ..... £22.99  
SUPERPROG ..... £19.99  
SWORD OF HONOR ..... £18.99  
THE MANAGER ..... £18.99  
TROGLERS ..... £18.99  
VIKINGS ..... £25.99  
WALKER ..... £6  
WING COMMANDER ..... £26.99  
WORLD CLASS CRICKET ..... £21.99  
WAP 2 ..... £18.99  
ZOO ..... £18.99  
ZOO 1200 ..... £19.99

**COMPLICATIONS**

COMBAT CLASSICS ..... £21.99  
DREAM TEAM ..... £18.99  
LEMMINGS TWIN PACK ..... £22.99  
MEGA SPORTS ..... £18.99  
QUEST & GLORY ..... £22.99  
SIM CITY & POPULOUS ..... £21.99  
SUPERFIGHTER ..... £18.99

**BUDGET AMIGA GAMES FROM £6.99**

**£5 OFF MOST MEGADRIVE GAMES**

**MEGADRIVE CD ROM £264.99**

**POPULAR PC GAMES DISCOUNT PRICES**

EG: COMMANCHE MAXIMUM OVERKILL ..... £32.99  
STRIKE COMMANDER ..... £35.99  
EYE OF THE BEHOLDER ..... £20.99

**PC SERIOUS SOFTWARE.**

WINDOWS 3.1 ..... £94.99  
TIMEMARKS 3 ..... £144.99  
PARADOX SE ..... £69.99  
QUANTRO PRO FOR DOS & WINDOWS ..... £109.99  
WORDSTAR FOR WINDOWS ..... £49.99  
SAGE MONEYWISE ..... £49.99

**ALL PRICES INCLUDE VAT**

**GOLDSTAR PC OFFER**

386SX25 PC WITH 40MBG HD; 2MBG RAM; 14" SVGA COLOUR MONITOR; DOS 5 & WINDOWS & MOUSE; 12MONTHS ON-SITE WARRANTY.

**£699.99**

**OFFICIAL ORDERS FROM GOVERNMENT & EDUCATIONAL ESTABLISHMENTS WELCOME. PRICES WERE CORRECT AS OF 6-4-93, but as our crystal ball is broken, some may have changed by the time you read this, due to currency fluctuations & manufacturers/ suppliers price increases. We do state mistakes from time to time too! £100. Please phone if in doubt.**

**© TRIOLOGIC 1993 All rights reserved. All registered Trademarks are acknowledged. Callers are most welcome but please phone first to check availability & avoid disappointment - we try to keep most items in stock unlike some of our competitors and will gladly put items aside for you to collect, but shortages of some items do occur from time to time.**

## AMIGA 1200HDs A1200

### AT LOW PRICES.

A1200+40MEG HD	£499.99	SPECIAL OFFER	£939.99
A1200+60MEG HD	£559.99		£999.99
A1200+80MEG HD	£589.99		£1029.99
A1200+120MEG HD	£689.99		£1129.99

PRICES INCLUDE 2YR EXTENDED WARRANTY

WITH CUBSCAN  
MONITOR

ANY A1200  
COMPLETE WITH  
BATTERY  
BACKED CLOCK  
- ADD £18.00

AMIGA 1200  
COMIC RELIEF  
£379.99

VISIT OUR  
NEWLY  
REFURBISHED  
&  
ENLARGED  
SHOWROOM

OPEN SUNDAY 10-3PM  
**TRILOGIC**  
est 1984  
SALES: 0274 691115

## NEW LOW COST

### AMIGA 4000<sub>030</sub> RANGE

WITH 80MEG OR 120MEG HDs PLEASE  
PHONE FOR LATEST PRICES & SPECS

#### NEW LOW PRICES ON ALL 600s

AMIGA 600 STANDALONE	AMIGA 600 'WILD, WEIRD 'WICKED'	AMIGA 600HD 'EPIC' PACK' 20 OR 40MEG
FROM £199.99	£229.99	FROM £339.99

#### AMIGA 500 PLUS - LIMITED STOCKS

STANDALONE > BUILT-IN 3.5" DISK DRIVE only > 1MEG RAM > MOUSE > TV MODULATOR > WORKBENCH 2.04	2Meg versions add just £35.00	CARTOON CLASSICS > BUILT-IN 3.5" PLUS DISK DRIVE > 1MEG RAM > MOUSE > TV MODULATOR > WORKBENCH 2.04
£189.99		ONLY £224.99

## PRINTERS

**NEW CITIZEN SWIFT 90 £179.99**  
THIS BRAND NEW MODEL replaces the Swift 9 COLOUR  
3pin; upto 240cps in high speed draft & 54cps HQ printing speed. 6 MEG  
built-in fonts. Friction & tractor feeds. Paper park. Low cost ribbons.  
2 year warranty. Epson FX850 & IBM Proprinter III emulations. Low noise  
level, + 'quiet mode'.

**CITIZEN SWIFT 9 COLOUR ONLY £179.99**  
3pin; 192cps draft, 48cps HQ printing speed. 4 built-in fonts. Friction  
& tractor feeds. Paper park. Low cost ribbons. 2 year warranty. Epson &  
IBM Proprinter emulations. Low noise level.  
MONEY LIMITED STOCKS LEFT.

**CITIZEN SWIFT 240C COLOUR £284.99**  
**CITIZEN SWIFT 240 MONO £269.99**  
24 pin; 240cps draft & 80 cps letter quality print speed. 9 fonts, 2  
scalable fonts. Paper parking, push & pull tractor feed, friction feed.  
Epson LQ570, NEC P20 & IBM emulations. Ultra low noise level, + quiet  
mode for even lower noise. 2 year warranty.  
128K RAM EXPANSION £33.99

**CITIZEN SWIFT 200 SUPERB MODEL & ONLY £209.99**  
**CITIZEN SWIFT 200 COLOUR £244.99**  
24 pin; 240cps draft & 80 cps letter quality print speed. Nine letter quality fonts, 2  
scalable letter quality fonts. Paper parking, push & pull tractor feed, friction feed.  
Epson LQ570, NEC P20 & IBM Proprinter emulations. 2 year warranty  
128K RAM EXPANSION £33.99

**CITIZEN PROJECT INKJET LASER QUALITY PRINT £309.00 INC VAT**  
300dpi Laser quality 50 nozzle INK jet printer. Fast & very quiet. 360cps draft & 240 cps  
letter quality print speed. Three letter quality fonts + optional font cards. HP Deskjet  
Plus emulation. Optional 128k & 256k ram cards. 100 sheet automatic feeder.  
Ink cartridge £13.99

**SEIKOSHA OF 104 budget LASER PRINTER £559.99 inc vat**  
Four page per minute; HP Laserjet IIP emulation; 300x300 DPI; 1yr on site warranty.  
Postscript version with 2meg ram £849.99 inc vat

**RICOH LP1200 LASER PRINTER £799.99 inc vat**  
6 pages / minute; PCL5 with scalable fonts; upto 400dpi resolution (300 standard, 400  
requires extra 2meg ram); 2meg ram as standard; straight paper path; resolution  
enhancement; flash ram for downloading new firmware; IC card slot for flash roms; serial &  
parallel ports; 1 yr on-site warranty.

## FREE STARTER PACK

WITH ALL  
CITIZEN  
SWIFT  
PRINTERS  
1.8m  
PRINTER  
CABLE)  
CITIZEN  
PRINT  
MANAGER  
AMIGA DRIVER  
SOFTWARE  
+  
250  
(approx)  
SHEETS OF A4  
PAPER

## AMIGA 500 HARD DRIVES

### FURTHER REDUCTIONS ON SOME ITEMS

GVP HD8 FOR A500 & 500+ - NO DRIVE	£184.99
GVP SERIES II HD8+ 42 Meg for A500 - PRICE DOWN -	£244.99
GVP SERIES II HD8+ 80 Meg for A500 - PRICE DOWN -	£345.99
GVP SERIES II HD8+ 120meg for A500 - PRICE DOWN -	£389.99
GVP SERIES II HD8+ 210meg for A500 - now only	£575.99
The HD8 series II can accept either 1 or 2 or 4, 1 meg srams; OR two, 4 meg srams.	
GVP SERIES II HD8 for A1500/2000 - NO DRIVE	£119.99
GVP SERIES II HD8+ 42meg for A1500/2000	£285.99
GVP SERIES II HD8+ 80meg for A1500/2000	£334.99
GVP SERIES II HD8+ 120meg for A1500/2000 - now only	£409.99
GVP SERIES II HD8+ 210meg for A1500/2000 - now only	£559.99
The HD 8 Series II can accept upto 8, 1meg x9 Srams in 2 meg steps.	
GVP A530 COMBOS with 42mb drive	£475.99
GVP A530 COMBOS with 80mb drive	£575.99
GVP A530 COMBOS with 120mb drive	£677.99
1MEG *9 SIMMS FOR GVP DRIVES	£34.99
1MEG 32 BIT SIMM .....	£59.99
4MEG x8 SIMMS FOR GVP DRIVES	£139.99
4MEG 32BIT SIMMS FOR A530 ..	£179.99

MAJOR  
REDUCTIONS

A590 & GVP SCSI DRIVE UPGRADES.  
42MEG £139.99 52MEG £149.99(few only) 105MEG £199.99

## EMULATORS & ACCELERATORS

VORTEX AT ORCE PLUS 286 PC EMULATOR FOR A500	£199.99
GVP PC286 PC EMULATOR CARD FOR SERIES II HARD DRIVES	£147.99
GOLDEN GATE 386SX PC CARD FOR A1500/2000	£199.99
GOLDEN GATE 486SX PC CARD FOR A1500/2000	£749.99
OPTIONAL DRIVE CONTROLLER CHIP FOR GOLDEN GATE	£34.99
11T 80387SX25 CO-PROCESSOR FOR GOLDEN GATE	£89.99
G-FORCE 030/25MHz FOR A1500/2000 others available	£479.99

## IDEAL FOR YOUR A1200 OR 4000

### CUBSCAN MULTISCAN 14" MONITOR.

- \* Dot pitch - 0.28mm.
- \* Antiglare 14" hi-brightness screen.
- \* Digital memory sizing - for automatic borderless display in all Amiga modes.
- \* All controls at front.
- \* VGA compatible for PC use.
- \* 15-40KHz horizontal scan rate.
- \* 45-90Hz vertical scan rate.
- \* Tilt-swivel base included.

ONLY £469.99 INC AMIGA LEAD  
OR £499.99 WITH SUPERFI 2 STEREO SYSTEM

\*\* DEDUCT £20 IF BOUGHT WITH ANY AMIGA \*\*  
20" CUBSCAN MODEL ALSO AVAILABLE - POA

## COMMODORE 1960

14" MULTISYNC COLOUR MONITOR  
WORKS IN ALL A1200 MODES inc low res (15.6KHz modes)

SPECIAL OFFER - £399.99.

Price inc Productivity adaptor & cables

## LOWER HARD DRIVE PRICES

### 2.5" FAST ACCESS IDE HARD DRIVES FOR YOUR

AMIGA 600 or 1200		
40MEG only	£119.99	£164.99
60MEG only	£169.99	£214.99
80MEG only	£199.99	£249.99
120MEG only	£299.99	£349.99

#### PRICE INCLUDES:

READY FORMATTED & PARTITIONED DRIVE; DRIVE CABLE; FULL FITTING INSTRUCTIONS & FIXING SCREWS + LEGAL FORMATTING DISK & RECOVERY HINTS.

MAILORDER COLLECTION & DELIVERY SERVICE JUST £19.99

FIT A HARD DRIVE YOURSELF - IT'S EASY AND WITH  
OUR 2 OR 3 YEAR WARRANTY PLANS, YOU'RE COVERED  
FOR BOTH BREAKDOWNS & ACCIDENTS.

OUR Specially Negotiated LOW COST NO FUSS Warranties  
cover BOTH COMPUTER & DRIVE FROM ONLY £27.99

- \* COMPUTER & DRIVE BOTH COVERED
- \* ACCIDENTS AS WELL AS BREAKDOWNS COVERED
- \* COVERED EVEN IF DRIVE FITTED BY PURCHASER.
- \* COVERED EVEN IF COMPUTER NOT PURCHASED FROM US
- \* VERY FEW EXCLUSIONS
- \* UNDERWRITTEN BY A LEADING UK INSURANCE Co.

COMPUTERS UPTO £600 - £27.99 for 2yrs or £42.99 for 3yrs.  
COMPUTERS UPTO £999 - £32.99 for 2yrs or £67.99 for 3yrs.

Not available for Business users. Exclusions: theft; wilful damage; cosmetic damage - full written details on request. These are Return to Base warranties. Computer must be under 6 months old. Computer value used to calculate warranty cost must include cost of internal hard drive.

WHY NOT COVER YOUR AMIGA 500, 600, 1200STANDALONE OR 4000 -  
the prices above apply. Monitors & printers can also be covered -poa.

### DON'T BE WITHOUT A WARRANTY.....

Commodore have told us that their On-site warranty will not apply if the  
Warranty seals are broken by ANYONE including dealers.

## AMIGA 1200 MEMORY & CLOCK UPGRADES

### A1200 INTERNAL CLOCK MODULE - £19.99

Plus into internal socket (not fitted  
to all 1200s)- fitting invalidates  
warranty. BATTERY BACKED.

### AMIGA 1200 FAST RAM CARDS

A1200 PCMCIA 2 MEG 16BIT FAST RAM	£149.99
A1200 PCMCIA C 4MEG 16BIT FAST RAM	£224.99

Even 1meg of 32bit fastmem gives approx  
100% speed increase.

LOWER PRICES  
MICROBOTICS MBX range: No 68881 or memory £119.99  
MICROBOTICS 14MHz inc 0 meg 32bit fast ram £139.99  
MICROBOTICS 14MHz inc 1 meg 32bit fast ram £199.99  
MICROBOTICS 14MHz inc 2 meg 32bit fast ram £239.99  
MICROBOTICS 14MHz inc 4 meg 32bit fast ram £319.99  
Available with or without 68001/2 PPU & fit in the  
underside trapdoor. Warranty is unaffected.  
ALSO AVAILABLE WITH ON-BOARD CLOCK - ADD £20  
FASTER 25MHz 68001 VERSIONS ARE ALSO AVAILABLE -  
PLEASE ADD TO ABOVE PRICES . £50.00  
50MHz 68002 version also available. 0 meg £419.99

GVP 32BIT TURBO /MEMORY BOARD for A1200 £479.99  
Includes 68030 running at 40MHz plus 4meg 32bit ram.  
68882 socket for PPU (included). Has two 32bit  
simms slots. With no fpu & 0meg £294.99

32BIT SIMMS FOR MBX / GVP / A4000 ETC.	
1MEG 32BIT .....	£59.99
2MEG 32BIT .....	£99.99
4MEG 32BIT double sided .....	£179.99
4MEG 32BIT single sided for A4000	£179.99

## EXTERNAL DISK DRIVES

### ROCLITE RF382av 3.5"

### EXTERNAL DRIVE £64.99

WITH ANTI-VIRUS & ANTI-CLICK FEATURES. RRP £79.99

OR WITH NEW XCOPY PRO £94.99

CUMANA CAX354 £64.99

## MEMORY UPGRADES

A500 / 500+ 1/2meg upgrade without clock	£24.99
A500 / 500+ 1/2meg with clock & battery	£29.99
A500+ 1MEG UPGRADE .....	£44.99
AMIGA 600 1meg upgrade + clock - now only	£44.99
FOR A600 PCMCIA CARDS - SEE A1200 PCMCIA PRICES	

### SPECIAL OFFER - LIMITED STOCKS

COMMODORE A590 20MEG FOR A500 £177.99  
Includes sockets for up to 2meg fast memory (£34.99  
per meg extra. Upgradeable with larger SCSI hard  
drives.

FULLY  
COMPATIBLE,  
WE BELIEVE,  
WITH ALL  
AMIGA1200  
VIDEO  
MODES

SHARPER  
PICTURE  
THAN THE  
1960

Compatible  
with ALL  
AMIGA & PC



BUYERS GUIDE

In the second part of our comprehensive round-up, we look at another batch of blistering sticks.

PART  
**2**

Forget printers and hard drives, joysticks are the number one home computer peripheral. There's such a wide variety available, all offering 'robust steel shafts' and 'mega-blaster fire', that it's almost impossible to know which one to go for. But it's a sad fact that, despite the diversity of the market, there are only actually a few sticks worth buying. So, once more, CU AMIGA's top panel of expert testers has scoured the scene to bring you the definitive guide to the top sticks on offer. Remember - don't buy till you've read the review.

# Joysticks

**THE BUG • CHEETAH • PRICE: £14.99 • TEL: 061 707 7080**



The Bug from Cheetah is one of those novelty sticks which looks as though it could actually be rather good, but when you use it you find out that your assumptions were completely wrong.

It's impossible to get a good grip on the ultra-short handle and when the going gets tough the hand starts slipping. The only good thing about this stick is the well-placed fire buttons, which are perfect for thumb use, but a little awkward when it comes to finger operation. One small compensation is the size, which is spot on, fitting perfectly into the palm of your hand. Hand-holds like this are best for fast moving games, like *Sensi Soccer*, but in that regard the Speedking from Konix beats the Bug hands down.

This new 'slime green' version does absolutely nothing for an already ugly stick. What I would like to see is a rubberised version of this, not out of any kind of fetish I hasten to add, but because you'd get a much better grip. An extra £1.50 on the asking price for that, a redesigned handle and this would be a far better stick.

**VERDICT**

*Uncomfortable to hold and difficult to use.*

**64%**

**125+ • CHEETAH • PRICE: £9.99 • TEL: 061 707 7080**

This is a real veteran joystick - I remember using one back in the days when the Spectrum was popular and nobody had even heard of the Amiga.

The generation gap shows when you get to grips with this stick as it forgoes microswitches for more traditional leaf switches. This isn't a bad thing though - whilst they're not quite as responsive as microswitches, there's none of that annoying clicking and they actually work better with flight sims.

Although it's hardly revolutionary, the stick is comfortable to hold. What does let it down are the fire buttons, which could have been more responsive.

Despite being ancient in joystick terms, this is still a good performer. If you have a tenner spare and want a stick which will give you the kind of performance that you can't find with microswitches, this is worth more than a casual look.

**VERDICT**

*Solid and reliable. This is one of the best leaf-switched joysticks on the market.*

**80%**



**COMPETITION PRO EXTRA • DYNAMICS • PRICE: £16.99 • TEL: 0457 876705**

Of all the sticks to be reviewed in CU AMIGA over the years, none has had such consistently good reviews as this one. The stick's travel is tough to begin with, but after a few days it loosens up and becomes far more tolerable. This version also has a slow motion mode which slows the action down to one third of its normal speed. This is particularly handy for games such as *Project X* where the pace is blindingly fast.

Because it uses rubber pads instead of suckers to keep it on a table top, it's comfortable to hold. If there has to be a criticism it's that the autofire switch is a little out of the way. Apart from that the Comp Pro is one of the best sticks ever. Reliable, accurate and solid, there's almost no reason for you to look at any other stick.

It may look dated, but that's because it's been so successful for so long. You'll be hard pressed to find a better stick.

**VERDICT**

*Still the best all-round joystick on the market.*

**90%**



**JETFIGHTER • SPECTRAVIDEO • PRICE: £14.99 • TEL: 081 900 0024**

This certainly looks impressive to begin with. It's larger than your average stick with a good array of switches. Using it, however, is a completely different kettle of fish.

For starters the stick's size gives it too much travel, which limits its responsiveness. The fire buttons are also cluttered up with the various autofire switches, so if you get too carried away it's easy to thumb the rapid fire off.

Should you lose your temper with the stick, the base is constructed well enough to withstand a good thumping, providing you can get the stick off the table.

Although we had no problems with ours, the looseness of the stick and cheap feel of the plastic gives you the impression that the Jetfighter wouldn't be able to survive a determined pounding.

**VERDICT**

*Bulky, uncomfortable and unresponsive.*

**43%****BOLLISTICK • CHEETAH • PRICE: £9.99 • TEL: 061 707 7080**

Joypads may be the norm on consoles, but for some inexplicable reason they're few and far between on the Amiga.

Even by console standards the Bollistick is a bit of a weirdo. You grab hold of the two handles and operate the pad with the thumb of your left hand and the buttons with the thumb of your right. The choice between joypad and joystick is mainly one of personal preference, but I actually prefer this pad to most conventional joysticks. The response is fantastic and it's actually very comfortable to use.

In fact the only drawback of this stick is that it's very awkward to hold if your hands are bigger than average size. Apart from that there's almost nothing to fault this stick on. The casing could have been made out of better quality plastic, but a joypad hardly takes the same level of thrashing that a normal stick does, so that hardly matters.

**VERDICT**

*Small, neat and very responsive.*

**88%****FREE WHEEL • LOGIC 3 • PRICE: £39.99 • TEL: 081 900 0024**

So-called 'novelty' joysticks are normally very limited in their usefulness, or just plain crap. The Free Wheel touches both categories.

For sheer innovation this scores 10 out of 10. There's no base, just the wheel and the cable. It works with tilt switches which detect when the wheel is moved, while the fire buttons are set in the rim at the top.

Because there's no base, there's nothing to rest your arms on. If you start feeling wrist cramps it's nearly impossible to take one hand off the wheel to pause the game without sending your car careering off the track. The response is incredible, in fact it's so good that it actually takes you a couple of hours to learn how not to over compensate.

Ignore the novelty value, this just doesn't cut it when compared to conventional sticks.

**VERDICT**

*A very good idea, but one that just isn't practical in execution.*

**62%****MEGASTAR • SPECTRAVIDEO • PRICE: £24.99 • TEL: 081 900 0024**

This is the big brother of the Superstar we reviewed last month, although for some reason it doesn't quite match up to it.

Again, it's impressively large, with plenty of suckers to keep it held fast on your table top. There are more fire buttons than you actually need, although all of them are equally responsive, if somewhat hard to reach. It's nice to see such a wide choice of fire button positions.

What lets the Superstar down is the ultra-tense stick. Where the Superstar is loose and has plenty of travel, you end up fighting this one, which ruins any chance you have of notching up a high score.

The response is excellent once the stick has loosened and the twin fire buttons are perfectly placed.

**VERDICT**

*Solid, but the tense stick makes it unresponsive.*

**72%****NAVIGATOR • KONIX • PRICE: £15.99 • TEL: 0495 350101**

The only rival to the Speedking's mantle of best hand-held joystick comes, coincidentally, from the same company.

The Navigator is decidedly more futuristic, with a black and blue rounded design. Not only does this look good, the shape is also very comfortable to hold. It also features an autofire mode, with the switch sensibly located in front of the stick.

Like most hand-held joysticks this suffers from having a really short stick. Once you're used to it the problems soon dry up, but some people never adjust to only having two inches of plastic at their mercy.

Obviously hand-held sticks aren't nearly as versatile compared to likes of the Competition Pro, but in the case of the Navigator it's far more comfortable to hold.

**VERDICT**

*A good alternative to the Speedking. Better looking, although not as responsive.*

**81%**

# THE WINNING LINE



WIN AN AMIGA A1200  
WIN THIS AMAZING  
32 BIT WONDER

**0839 406064**

NINTENDO  
GAME  
BOY



plus  
loads of  
accessories

**0839 406067**



WIN A SUPER NINTENDO + STARWING  
THE LATEST SNES ACTION CAN BE YOURS

**0839 406051**

DONNAY AGASSI  
TENNIS RACQUET

WIN ONE JUST LIKE  
AGASSI USES!

**0839 406068**



SUPER NINTENDO + STREETFIGHTER III!  
ALL THE ARCADE ACTION IN  
YOUR OWN HOME!

**0839 406061**

£150  
WORTH OF  
SPORTS  
GEAR!

Choose what you  
want at Olympic  
Outdoor World

**0839 406069**

WRESTLING  
VIDEOS

win £60  
worth of  
wrestling  
action

**0839 406058**

RALEIGH ACTIVATOR 2  
OR ANY OTHER MOUNTAIN BIKE OF  
YOUR CHOICE UPTO £200!

**0839 406059**

WIN A  
BAR CODE  
BATTLER

IT'S NEW AND IT  
COULD BE YOURS!

**0839 406057**



WIN GAME GEAR - JUST THE GAME FOR  
THOSE ON THE MOVE!

**0839 406063**



SEGA MEGA CD  
laser quality sound, graphics, games!

**0839 406062**



WIN A STREET  
FIGHTER II JOYSTICK  
OR THE JOYSTICK OF  
YOUR CHOICE UPTO £70

**0839 406065**

WIN A SEASON TICKET  
TO THE FOOTBALL CLUB  
OF YOUR CHOICE!

**0839 406054**

WIN £150 WORTH OF GAMES!  
RUN RIOT IN A GAME STORE!

**0839 406066**

SEGA  
MEGADRIVE

GET YOUR  
HANDS ON  
THIS GREAT  
CONSOLE!



**0839 406052**

Calls cost 36p (cheap) 48p per min (other times). Multiple choice questions. Max possible cost £3.60. Please be sure that you have permission to make this call. Ends 30.9.93. Bar Code Battler, Nintendo, Sega, Amiga, Streetfighter II, Starwing and Donnay are all registered trademarks of their respected companies. We are not related to or endorsed by them. For rules and winners names send a SAE to IMS Ltd, PO Box 28, Northampton NN1 5DS

## The First 9 Mb 32 bit Internal Ram Card for Amiga 1200

### Features:-

- Integrated 32 bit Ram conveniently expandable to 5 Mb or 9 Mb (comes with 1 Mb installed). Giving a maximum capacity of upto 11 Mb to your Amiga 1200.
- Option to conveniently install an FPU with up to 50MHz and oscillator to increase performance.
- Real time battery backed-up clock, a must for hard drive users.
- Auto-config with zero wait states.
- More than twice as fast as the graphic RAM of the Amiga 1200 thanks to the double clock rates and shorter access cycles.
- 100% compatible with all Amiga 1200.
- Easy installation, just plug in and go.

### Important

**Please note :-** To operate the Mathematic Co-Processor with clock rates over 14 MHz you need a Quartz(Oscillator). The Quartz(Oscillator) must have the same clock rates as the Mathematic Co-Processor.

ITEMS	PRICE
AF1200 1Mb with clock, no Oscillator, no FPU Processor	£ 115.00
AF1200 5Mb with clock, no Oscillator, no FPU Processor	£ 239.00
AF1200 5Mb with clock, Oscillator,16MHz 68882 FPU	£ 285.00
AF1200 5Mb with clock, Oscillator,20MHz 68882 FPU	£ 290.00
AF1200 5Mb with clock, Oscillator,25MHz 68882 FPU	£ 295.00
AF1200 5Mb with clock, Oscillator,33MHz 68882 FPU	£ 299.00
AF1200 9Mb with clock, no Oscillator, no FPU Processor	£ 369.00
AF1200 9Mb with clock, Oscillator,16MHz 68882 FPU	£ 415.00
AF1200 9Mb with clock, Oscillator,20MHz 68882 FPU	£ 420.00
AF1200 9Mb with clock, Oscillator,25MHz 68882 FPU	£ 429.00
AF1200 9Mb with clock, Oscillator,33MHz 68882 FPU	£ 439.00

## The New 256,000-Colour Hand Scanner For Amiga

Powerful Colour Image Processing Tools for the Office or Home Environment. No Longer a "Professional Task" to Scan High Quality Images.

### Software Features:-

- Easy to learn and use intuitive user interface.
- Real-Time Scanning display on screen.
- Supports 256,000 Colours and 64 greys for Amiga 1200 and 4000 with new AGA chip sets.
- Supports 4,096 Colours, 16 greys, dithered Colour and black & white capabilities for all Amiga models.
- Image size is limited only by the amount of RAM available.
- Memory requested does not have to be Chip RAM.
- Full Multi-Tasking with all Amiga computers.
- Intelligent maximum scanning length indication.
- Imports/Exports IFF file formats.

### System Requirements:-

- For all Amiga Models with a Monitor or compatible TV-set, 1 Megabyte of RAM and a floppy drive.
- More memory and hard disk are recommended but not required.
- Compatible with Amiga WB 1.3 and Higher (WB 3.0 also supported).  
Compatible With:-
- Any painting, publishing, and OCR programs that load IFF files. Examples :- Deluxe Paint, Professional Page, Page Stream, Saxon Publishers, Migraph OCR

### Hardware Features:-

- Easy installation, plug in and go in just minutes.
- 256,000 Colours, 105mm(4 inch) scanning width.
- Built in Over-Speed Buzzer to prevent scanning too fast.
- With SC(Super Colour), CG(Colour Grey), MG(Monochrome Grey), and D/T(Dithered/Text) modes selection switch.
- Selects 50/100/150/200 DPI by resolution selector switch for SC and CG modes.
- Selects 100/200/300/400 DPI by resolution selector switch for MG and D/T modes.
- Metal Interface Box With a Printer Through Port.

**PRICE £ 299.00**

### HARD DRIVES

- External IDE HDD for Amiga A500/A500+
- Internal IDE HDD for Amiga A1500/A2000
- Memory conveniently expandable to 2/4/6/8Mb by using 1M X 4 Zips
- 100% compatible
- Easy Installation, Just Plug in and go
- Auto boot, Auto config and zero wait states

Controller for A500/A500+/A1500/A2000	£99.00
Controller + 40Mb Hard Drive	£ 199.00
Controller + 65Mb Hard Drive	£ 279.00
Controller + 85Mb Hard Drive	£ 299.00
Controller + 120Mb Hard Drive	£ 329.00
<b>Hard Drives For A600/A1200</b>	
40Mb + IDE Cable	£ 149.95
65Mb + IDE Cable	£ 199.00
85Mb + IDE Cable	£ 279.00
120Mb + IDE Cable	£ 299.00
Fitting For A600 or A1200	£ 29.95

### 256 GREYSCALE SCANNERS

With Latest Touch-Up, Merge-It Compatible with A1200 and A4000	£ 129.95
With Scan & Save, Merge It	£ 99.95
With Latest Touch-Up, Merge-It & Junior OCR	£ 179.95
With Scan & Save, Merge-It and Junior OCR	£ 149.95

### GIGAMEM Virtual Memory for Amiga Application

Most recent powerful application for the Amiga(e.g. for graphics, music, animation, raytracing, DTP,...) require more main memory than is available or possible to integrate. GigaMem is a program which simulates up to 1 GigaByte memory, which swaps onto any mass storage system (i.e. harddisk). Intelligent management accomplishes simultaneous use of several programs in a multitasking mode.

### System requirements

- GigaMem works with all AMIGA<R> computers with MMU(Memory Management Unit); i.e. Amiga's with 68020 or 68030 accelerator and MMU
- No restriction on type of HD controller and harddisk.
- GigaMem is compatible to Kickstart 1.2/1.3 and 2.x.

**PRICE £69.95**

E&OE. Prices subject to change without notice. Goods subject to availability specifications subject to change without notice. All trade marks Acknowledged.

### Delivery Charges:-

Orders below £50.00 Please add £3.50 for postage and packing.  
Orders above £50.00 Please add £6.00 for Courier Service.  
Next day delivery (Check availability) Please Add £10.00.  
All above charges are for delivery in Main Land UK.

### MIGRAPH PRODUCTS

ColourBurst Scanner + OCR	£ 399.00
Full OCR Software	£ 99.00
Touch-UP Version 3.1x	£ 49.00
Scanning Tray	£ 49.00
Touch-Up Upgrade & Junior OCR	£ 79.00
Touch-Up Upgrade V3.1x available	£ 29.95

### MICE & TRACKBALL

Optical Pen Mouse with Mat	£ 35.95
Three button Trackball	£ 29.95
Crystal Trackball with two colour shining ball	£ 34.95
Mega Mouse 290 DPI	£ 12.95
Mega Mouse Mark II 260 DPI	£ 11.95
Mega Mouse with Mat & Holder	£ 17.95
300 DPI Optical Mouse with Metal Mat & Holder	£ 29.95
400 DPI Mouse	£ 14.95
Cordless Infra Red Mouse with Mat & Holder	£ 49.95

### ACCESSORIES

Hard/Soft Mouse Mats	£ 3.00
Aut Mouse/Joystick Switch	£ 12.95
Auto KickStart Switch for A500/2000	£ 17.95
Expansion Adaptor for A500/500+	£ 17.95

**10% Off all Prices.**

To Order Please Quote Ref. No. CAM30.

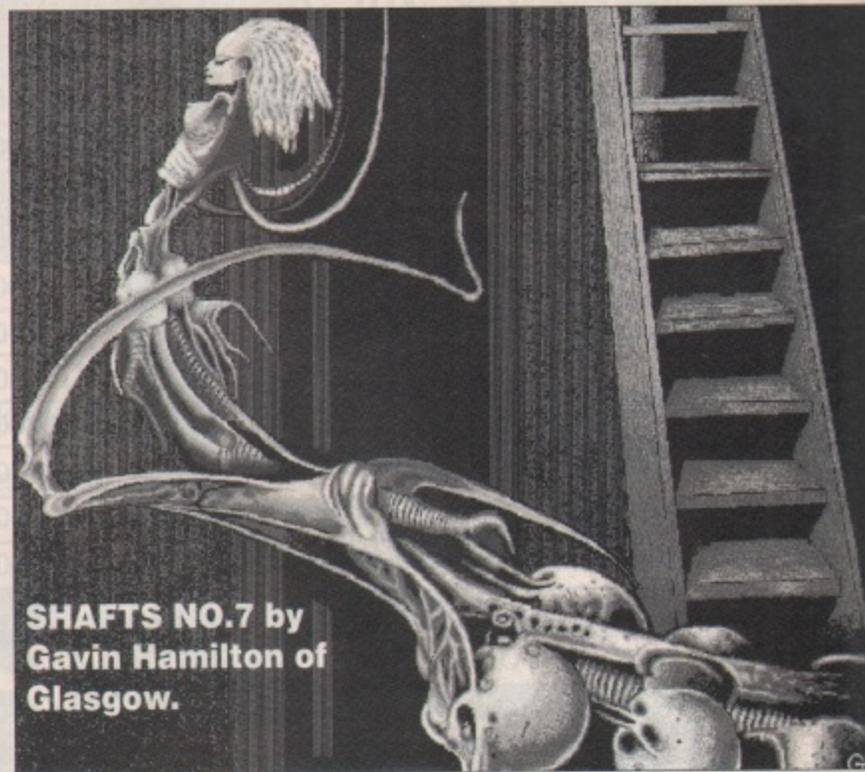
TEL : 081 365 1102 FAX : 081 801 8356

# GOLDEN IMAGE

Unit 12a, Millmead Business Centre,  
Millmead Road, London N17 9QU

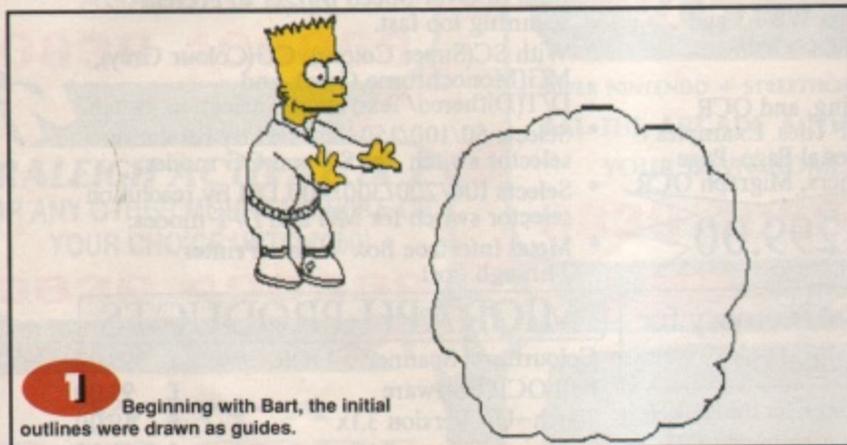
# ART GALLERY

If you'd like to see your name and work in print sort out some *DPaint* files and send 'em in. Here's Tony Horgan's selection of exquisite art from readers who did just that.



SHAFTS NO.7 by Gavin Hamilton of Glasgow.

**BART AND HOMER** The male contingent of the Simpson family get the pixel treatment from Raymond Vass of Moray in Scotland.



**1** Beginning with Bart, the initial outlines were drawn as guides.



**2** Next up is Homer, in outline form once again.



**3** Homer's hat was drawn on a spare page, then pasted onto the main picture.

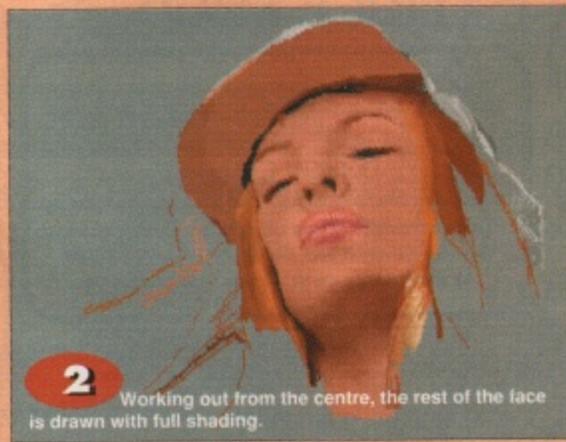


**4** A bit more detail on the characters and the background, and the scene's complete.

**HIPPY CHICK** Mark Gray of Blackpool gives us a stunning example of what's possible with the new AGA 256 colour modes.



**1** Taking an alternative approach, Mark starts the picture with the girl's left eye.

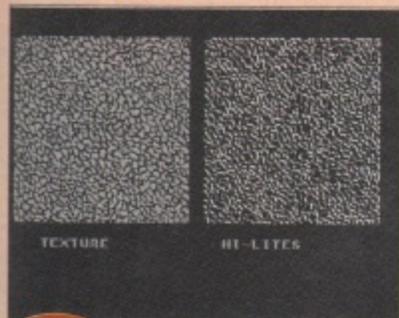


**2** Working out from the centre, the rest of the face is drawn with full shading.

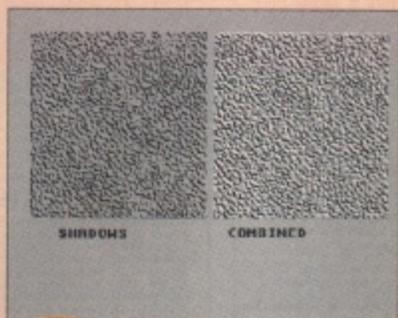


**3** The lips and the eyes were adjusted for position and scale at this point, with a bit of smoothing to cover the joins.

**BATTERIES NOT INCLUDED** Another AGA masterpiece, this time from Mark Lockett of Manchester, who you may remember featured in the May '93 Art Gallery.



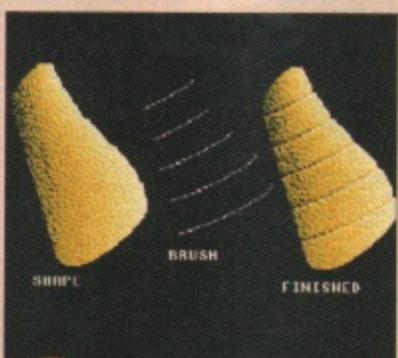
**1** Most of the work went into making the leather effect on the gun butt.



**2** An approximation of the texture was made by overlaying highlights on a wrinkled background.



**3** The texture was cut to the right shape, and filled with DPaint's WRAP/FILL tool.

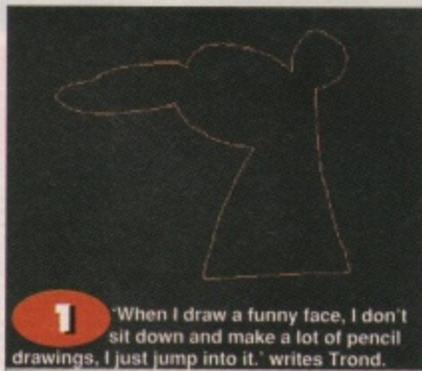


**4** The shade mode was used to add the texture effect whilst keeping the shading of the graduated fill.

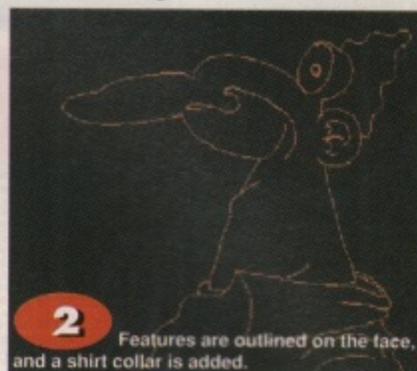


**5** A few minor details were added (like the rest of the picture), and here it is in all its glory. Very nice too.

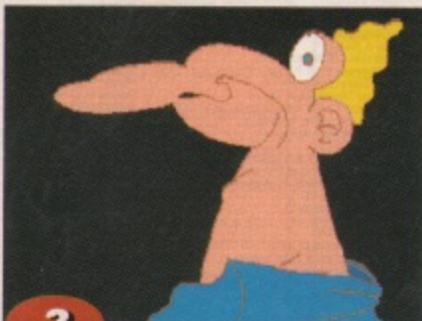
**FUNNY GEEK** Funny Geek comes from Trond E. Haveland of Fyllingsdalen in Norway.



**1** 'When I draw a funny face, I don't sit down and make a lot of pencil drawings, I just jump into it,' writes Trond.



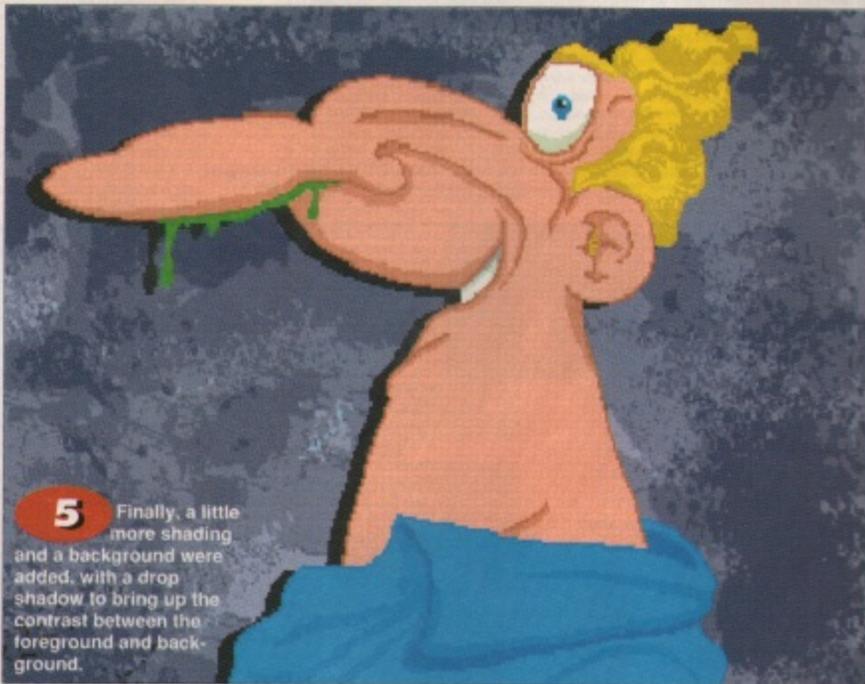
**2** Features are outlined on the face, and a shirt collar is added.



**3** The main areas were filled in with solid colours, bringing the cartoon to life.



**4** A bit of shading was added to give the picture some depth.



**5** Finally, a little more shading and a background were added, with a drop shadow to bring up the contrast between the foreground and background.

**GET DRAWING**  
 When sending your work to us, here's a few points to remember:  
 1. Include a selection of files showing the picture in various stages of construction.  
 2. If your work is based on that of another artist, please include his/her name and where you saw it.  
 3. If you would like your disk returned, please include an SAE.  
 4. Please mark your envelope 'Magnetic media - do not X-Ray' and send it to: Art Gallery, CU AMIGA, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.



**4** With most of the detail complete, the rest of the outline was sketched.



**5** Trial and error concluded that red was the most suitable background.



**6** With the background on a spare screen, the girl was picked up as a brush and pasted down in one easy move.

# Innovative

The innovators

Look out for the CLR logo!

## THE BEST COLLECTION OF PD GAMES

### GAMES

- PG003 AIR WARRIOR Good flight sim + (not A600)
- PG026 ANTEP & SLOTT CARIS Role playing game
- PG021 ATC ATAC Really playable game
- PG023 BATTLEFORGE War game
- PG024 BLACKJACK A good card game
- PG028 CASTLE OF DOOM Excellent! Get it + Y
- PG028 COLLOSSUS & WORLD FAP adventure + Y
- PG031 DAIKISTAFF Space strategy text adventure
- PG032 DRAGONS CAVE D&D style game Mega + Y
- PG034 ETERNAL ROME Strategy & DOMINOES + Y
- PG046 HACK Great text adventure/info style + Y
- PG047 HOLLYWOOD TRIVIA Nice Trivia Game!
- PG048 LILY GRILL One of the best text adventures + Y
- PG053 LARIN A superb text adventure game + Y
- PG059 LORE OF CONQUEST space trading D&D game Y
- PG052 MENTAL IMAGE 1 Gndrunner invaders & rebound
- PG053 MORIA Classic adventure new version 5.4!
- PG054 NAPOLEONIC WAR SIMULATOR A strategy game
- PG065 NESTOR CARD Game Good cards game + Y
- PG068 NO MANS LAND Hi tech war game-shoot em up + Y
- PG070 PETERS'QUEST Rescue the maiden platform + Y
- PG071 POMP PUNK GUNNER Like beach-head on the 64-Y
- PG072 PROPERTY MARTEL Become a millionaire!
- PG073 RAPHAILS REVENUE Turtle game in SEUCK!
- PG074 RETURN TO EARTH Elite space trading game + Y
- PG076 SEVEN TILES A classic board game
- PG079 SEALANCE A submarine strategy game + Y
- PG080 SERENE Good quality shoot up + Y
- PG081 SERENE II Follow up to the above game!
- PG127 AFIRMANIA Super platform game Mega + Y
- PG083 TENNIS Good game (Some language) 1mg
- PG094 TRAIN CONSTRUCTION KIT make own tracks + Y
- PG101 THE INSIDERS CLUB Stocks & shares game
- PG103 WET BEAVER Games Version of Pong game + Y
- PG110 SUPER SKODA A classic car race game + Y
- PG121 A5000 GAMES PACK 21 games to run on a plus-Y
- PG124 TOWN WAR Great new risk type game,ok plus-Y
- PG126 SKYFLYER Super WW1 shoot em up + Y
- PG127 AFIRMANIA Super platform game Mega + Y
- PG128 BEAT WARRIOR Stocks of new cheats
- PG129 PUZZLES BRILLIANT O'bert game!
- PG131 ATLANTIS A nice looking strategy game!
- PG138 BATTLE OF BRITAIN A WAR strategy War game!
- PG139 DUNGEONS OF MADRID Excellent D&D game + Y
- PG140 MIND GAMES Stacks of fun with this!
- PG149 A NIGHT AT THE TOWN Witty text adventure!
- PG151 FLAG CATCHER Avoid the bombs!
- PG153 WAR VET War strategy/arcade game + Y
- PG154 NUPPLY & ALLEN VADERS Manic maner type game
- PG156 PORK A PORK Pop the balloons & stop the loves!
- PG159 MR BRICK Great Mario type collect coins game
- PG164 GAME TAMER 2.3 joystick tester & 288 cheats!
- PG165 SOLDIARD Squared type game demo in Amiga + Y
- PG167 SERENE III From the author of Padd!
- PG168 WHATSITNAME Great new puzzle game just in
- PG174 AMOS CRICKET Shareware cricket game 1 or 2pl-Y
- PG175 SPACEMATE 2 players shoot each other up game + Y
- PG176 TECHNOBAND GAME Quiz a nice puzzle game!
- PG178 MENTAL IMAGE 2 Three Excellent new games + Y
- PG179 BLOB A sticky game written in ShootEmUp!
- PG180 SECTOR 1 A nice game similar to Alien Brd!
- PG181 STRIKEBALL Baseball type game demo in Amiga + Y
- PG182 ETHOS Simple graphics adventure Smbd style + Y
- PG183 CATAOCOMB98 great D&D style game. VG/GFX + Y
- PG184 FATAL MISSION Very good Shootemup game + Y
- PG185 ARADAZM Similar to the game above + Y
- PG186 SPACE TACTICS Space game like shoot em up!
- PG190 TOP SECRET An excellent quality platform game!
- PG191 ACT OF WAR New space strategy game + Y
- PG194 INTRUDER ALERT Very good strategy game!
- PG199 CASHPART Nice arcade Microbes. Good
- PG200 ALL POUNDER CRICKET New cricket game!
- PG202/3 ION CLADS Good strategic war game!(2)Y
- PG204 THRALLBOUND Text adventure with graphics+Y
- PG205 SCORCECARD Football managing game + Y
- PG214 LEGEND OF LOTHIAN Superb Utility type game! + Y
- PG218/9 CLASH OF THE EMPERES Super strategy + Y
- PG220 MICROMARKET V1.1 Good stock shares game + Y
- PG226 PD GAMES 3 games done in 3d construction + Y
- PG227 MR WALKER 3d walking shoot em up + Y
- PG242 MR & MRS Great platform adventure game + Y
- PG247 PICTURE TILES Nice picture puzzle game + Y
- PG250 FRUIT SALAD Very nice platform game!
- PG251 PARADISE & WHITE ICE Dunes of CLR! + Y
- PG254 ZALYON Shoot em up space game!(2) + Y
- PG255 KINGDOM AT WAR Nice strategy war game! + Y
- PG256 LCD DREAMS 4 small LCD games! + Y
- PG257 THE FUNHOUSE Empire, Thunderstruck & a sled! + Y
- PG258 AGA TETRIS 1200 tetris game, good!
- PG259 PICTURE PUZZLE Super picture jigsaw! + Y
- PG260/1 18TH HOLE A nice golf game! (2) + Y
- PG262 AGA CHESS Needs 4mg of ram to play! AGA ONLY.
- PG263 SOLITAIRE CLEARER A better game!
- PG264 SOLITAIRE SAMUEL A new game!

### ASSASSINS GAMES PACKS!

- The best selection of PD games ever assembled anywhere now all autoboot on A1200! (though not all games will run!) Something for everyone!
- AS1 1 Tnx, Rollerblade, Avantis Amigoids etc!
  - AS2 Invaders,Bally 2, Missile command etc!
  - AS3 Megaball & Drip Super gamepack + Y
  - AS4 Frogger Go Mike! cracker jumper etc!
  - AS5 Rad, 101 City & Rollerblade + Y
  - AS6 Pacman Downhillchallenge Welpix etc!
  - AS7 Moorbase, Tnx,Nightworks Claudenrner!
  - AS8 Arace2,Hell,Snappers & Numberfunner!
  - AS9 Features Battle, Pong, Asteroids etc!
  - AS10 Escape, Pipetox, Pickout & Syst!
  - AS11 Dad, Conque,Reversi Towers & Trippin!
  - AS12 Liamston, Car, Powerpong, XFI, Fab!
  - AS13 Twentis, Squamle,Block It,Ball etc!
  - AS14 Chess,Challenged & Mega Columns + Y
  - AS15 Battlaxons Latrix & Mammoth + Y
  - AS16 Westlands, Mission X,Delamira,Pacman + Y
  - AS17 Tomcat, Delandis, Jetman Bugblaster + Y
  - AS18 Henry in Paris Skyfyer Omega race! + Y
  - AS19 Growth,Franco,Reddy,Biscuits & more!NOT60
  - AS20 Microbes Hollywood trivia Coin drop + Y
  - AS21 Zeus Tetris Battlements & Dragonflies + Y
  - AS22 Lemmings,Wizards quest Duel Moultrann + Y
  - AS23 Quick money,Big, Mega, Asteroids
  - AS24 Revenge of comete Dn Crank 3dmasa etc! + Y
  - AS25 Mr Brick,Copper,Hamsters E Type + Y
  - AS26 Superpacman 92 Simthrust Asthro System etc!
  - AS27 Addictive cannon
  - AS28 Doozy,D'Mingo, Invaders2, Madbomb2 + Y
  - AS29 DOG, Rome, Nova, B-Bal, Atax, Quadrix + Y
  - AS30 Bounce & Blast, Total Fire Tnx attack! + Y
  - AS31 Aramaz2,Crazy pipe, revolution etc! + Y
  - AS32 Bids, Sector one & Firefighter!
  - AS33 Hyperball & War! 2 good games + Y
  - AS34 Trablazer, Yelp, Obc Rushour! + Y
  - AS35 Pong,Snakepit,Cybermetz Jump n roll + Y
  - AS36 Mother load, Wonderlans, Kom 1, Texty! + Y
  - AS37 Klaxtra, Gopher, Paccor etc! + Y
  - AS38 One on One,Bally,Skyfyer2,Transplant! + Y
  - AS39 Lots of card games on this disk! + Y
  - AS40 Disk full of sliding puzzle,Roll on etc! + Y
  - AS41 Pacman deluxe, Helonia, Laid 1,etc!
  - AS42 Galaga, Invader alert Dogs in space! + Y
  - AS43 Invincio Roulette Octohello etc! + Y
  - AS44 Nibbler,Mouse impossible,Roll on etc! + Y
  - AS45 Dns,Paachesse, Helonia, Laid 1,etc!
  - AS46 Amiga Q, City,Chackers, Quch etc! + Y
  - AS47 Elevator, Furrym, Crave, Archal + Y
  - AS48 Point to point,Psycho santa etc! + Y
  - AS49 Deathbringer in space Suez 1+2 etc! + Y
  - AS50 Euphoric, Roach, Moultrann, groll + Y
  - AS51 Lamers, Fighting Warrior Shaped! + Y
  - AS52 Rockslide, Moultrann, & Nul + Y
  - AS53 Vans invaders,Masterrind etc! + Y
  - AS54 Serene, Serene II & Car Wars! + Y
  - AS55 Cl-mis, Paccor & Asteroid! + Y

- AS156 Stormagale, Extreme Violence & Ties! + Y
  - AS157 Poo-poo! Domroes Dizzi diamonds Squirm + Y
  - AS158 Super raid 4 Magstron & Measasa! + Y
  - AS159 Turbo thrust GX20 & Leeding! + Y
  - AS160 Pipe master! Alien Hunter & Checkers! + Y
  - AS161 Battlesnake Running Chaser Scout blaster! + Y
  - AS162 Pipalind2 Mazeman & Up and Down! + Y
  - AS163 Nautilus Frenzy & Drive III! + Y
  - AS164 Obvion(tah) Breakout on kill etc! + Y
  - AS165 Paranoic Chess Word puzzle Woz search + Y
  - AS166 One wars Asterismaster & Asokotes + Y
  - AS167 Edge of the Beast! Type II & Vektor! + Y
  - AS168 Demolition Mission, Boulder & Atami! + Y
  - AS169 Klondike Celestial Apokor Bridge etc! + Y
  - AS170 Digital Tetris, Wang's 2, etc! + Y
  - AS171 Numerix, Battlaxons & Vs Tank! + Y
  - AS172 Escape pre. Boulderhead(not 1200) Carill-Y
  - AS173 Laxissa, Concentration & Challenger! + Y
  - AS174 Crazy pipes II, Bombjack & Chute! + Y
  - AS175 Double square, Gouary & Diamond thief! + Y
  - AS176 Gru Chess, Cubus & Gerbi! + Y
  - AS177 Ballonancy, Cliff hanger & Descender! + Y
  - AS178 Grey Attack, Vector Storm & Atom! + Y
  - AS180 Army Miner Flip 2, Golf The Gallows etc + Y
  - AS181 Amos Defence, Thunder Tron & Gerburdall + Y
  - AS182 Antlens Shuttle run & Arcade Volleyball! + Y
  - AS183 Loadsamoney, Pong & Spide! etc! + Y
  - AS184 Equima, Asteroids, Asteroids 2, etc! + Y
  - AS185 Paradox pre, Matchcorer, Rubik & Regimant + Y
  - AS186 Smurftrun,Lords of Host,Landog of Lohian + Y
  - AS187 Aztec Challenge,Jonas Fulstrand & Landmines + Y
  - AS188 Defiant, Relayer & Interceptor, Tank etc! + Y
  - AS189 Megaball 2, X, K and Cludyo! + Y
  - AS190 Fleisher, Starters & Minefield! + Y
  - AS191 Roton, Matrix & Spectrum! + Y
  - AS192 Bill, Cobolox, & Solitaire Sarnper! + Y
  - AS193 Smash talk, Novek, Kite, Asteroids, Alien bash! + Y
  - AS194 Super skoda challenge, Marchand & Gody! + Y
  - AS195 Premier pic, Tangle, Bop & Flop & Super league man!
- Assassins game packs made up in any numbers you require! AS1 - AS10 only 3.95 per pack! Y!  
FUNKPACK GAMES PACK 1-35 only 33.95 per pack! Y!  
(most run on Amiga 1200!)
- ### FUNKPACK GAMES
- FUN 01 Towers, Tron & Rings of Zn (NOT DOS 2 OR 3)
  - FUN 02 Raps, Car & Drip on this disk! + Y
  - FUN 03 Videopoker, Sys & Pipetox! + Y
  - FUN 04 X-Fire, Heavens, Driveways! + Y
  - FUN 05 Rollon, Super breakout, Arcade & Reversi! + Y
  - FUN 06 Up & Down, Humaria & Missile Command! + Y
  - FUN 07 Megaball, China Challenge & ATCI + Y
  - FUN 08 Lore of Conque, Mentars, Welpix, Sornly! + Y
  - FUN 09 Snakepit,Blackjack & Mine! + Y
  - FUN 10 Frog, Sealance & Billards + Y
  - FUN 11 Mosaic, Munars, Spira, Malice, Quatro etc + Y
  - FUN 12 Spacwarz, Elytron, run, Slozack, Backgammon + Y
  - FUN 13 Runnin' Nines, Kite, Interceptor, Tank etc! + Y
  - FUN 14 Paranoic, Klondike, Connex etc! + Y
  - FUN 15 Wordpuzzle, Triangle & Namegame! + Y
  - FUN 16 Ties, Newklondike, Paccor, Eternal, Rore Flip It! + Y
  - FUN 17 Sulfair, Aramaz, Novek, Kite, Asteroids, Mklrky-Y
  - FUN 18 Amarcalia, Liamston & Rocky + Y
  - FUN 19 Popcor, Attacks & Diamonds + Y
  - FUN 20 Simpsons, Windm! Widy, Windy, Metro Tom games + Y
  - FUN 21 Puzzer, CardMoss, Rescator, Raps, Bounce etc! + Y
  - FUN 22 Dog Ammos, Novek, Kite, Asteroids, Mklrky-Y
  - FUN 23 Jumper, Nakamoto, Rescue, Mirrowers + Y
  - FUN 24 Zeus, Chrome, Matchpox, Phone, Deathbringer + Y
  - FUN 25 Adventure, Boardgames, Bunnies, Cords, Puzzes + Y
  - FUN 26 Tetris, Kamis, Tetris + Y
  - FUN 27 Bunnies, Pod, Mr, Wobxy, Deluxe, Hamburger + Y
  - FUN 28 Klaxtra, Cybermetz, Nebula & Pipel + Y
  - FUN 29 Invader Alert & Crazy Suez + Y
  - FUN 30 Yelp, Tach, Squamle & System 4! + Y
  - FUN 31 Aramaz, Novek, Kite, Asteroids, Mklrky-Y
  - FUN 32 Wizaya, Quest & Spacecraft! + Y
  - FUN 33 Roylete, Friedric, Fiedly, Baily, Othello + Y
  - FUN 34 Quickmoney, Nightworks, Superpacman Bld II + Y
  - FUN 35 Search, D'Mingo, Novek, Kite, Asteroids, Mklrky-Y
  - FUN 36 Octoblox, Galaga, Space invaders 2 etc! + Y
  - FUN 37 Legend of Lohian & Search! + Y
- ### EDUCATION
- PE001/5 EDUCATION SET science programs for ages 11+ + Y
  - PE006 KIDSPANT! Fab ista talking colouring book + Y
  - PE007/8 THE ABC BEGINS! Maths, spelling etc. 5-10 yrs + Y
  - PE009 FORTYLAND 2 Story book for children + Y
  - PE010 TOTAL CONCEPTS ASTROLOGY Book on disk + Y
  - PE011 TOTAL CONCEPTS DINOAGRAM Book on a disk + Y
  - PE013 SIMON & SPACE MATHS Talking maths program
  - FUN 20/1 SPANISH FRASES FOR DIALOGUE LUTOR Not 500!
  - PE015 TREASURE SEARCH find the lost treasure! + Y
  - PE016 COLOUR THE ALPHABET learn letters & colours! + Y
  - PE018 TYPING TUTOR, Superpal Budget & Moultrann + Y
  - PE019 DUNKS STP, Pong, Desk Top Publisher for kids + Y
  - PE020 MATHS DRILL Good maths disk for the young! + Y
  - PE021/4 SCIENCE Very good four disk sets! (4) + Y
  - PE025 FRACTIONS & SILOUETTES Maths maths tutors + Y
  - PE026 WW II FACTS Good historical program + Y
  - PE027 AMIGA BEGINS! Learn to use your machine + Y
  - PE028 MATHS ADVENTURE Solve questions to progress + Y
  - PE030/2 DESKTOP GUIDE TO ELECTRONIC MUSIC! + Y
  - PE033 MATCH WITH HUMPTY Match the objects! + Y
  - PE034 WORLD GEOGRAPHY Quiz useful disk! + Y
  - PE035 KIDS DRILL Super to learn reading! + Y
  - PE036 FIREWORKS ALPHABET Good for kids! + Y
  - PE037 HOORAY FOR HENRIETTA Super preview + Y
  - PE038 HENRIETTA BOOK OF SPELLS Fab preview! + Y
  - PE039 COLOUR BEGINS! Learn to use your machine + Y
  - PE040 HOW THE EARTH BEGAN The full story! + Y
  - PE041 SINGALONG NURSERY RHYMES Good fun! + Y
  - PE042 CHILDRENS FAVOURITES More fun! + Y
  - PE043 PICTURES & LETTERS For very young! + Y
- ### BUSINESS
- PB001 AMICASH bank management program + Y
  - PB002/3 ANALYTICAL SUPER spreadsheet! (2)Y
  - PB004 ASL LABEL PRINTERS 3 of the best + Y
  - PB005 BANKIN control your cheque book! + Y
  - PB006 BUSINESS CARD MAKER Nice program + Y
  - PB007 CLERK CLERK Nice program to use your machine + Y
  - PB008 DESKTOP PUBLISHER Simple to use + Y
  - PB009 FLEXIYBASE DATABASE Address keeper + Y
  - PB011 MSC BUSINESS Geotime, Grocery list, Calc
  - PB013 GED Simple & effective text ed! + Y
  - PB014 RIM DATA RIM THE LATEST Version II + Y
  - PB015 TEXTPLUS V3.00 THE BEST Wordprocessor + Y
  - PB017 VISICALC SPREADSHEET Simple to use! + Y
  - PB019 BUSINESS LETTERS contracts, letters + more + Y
  - PB020 TEXT ENGINEER Nice word processing program + Y
  - PB021 ABASE PRO, Powerful easy to use Base + Y
  - PB022 MBASE III v5.5 A fast & easy to use database + Y
  - PB023 FORMS REALLY UNLIMITED form creation prog + Y
  - PB024 LAST WILL & TESTAMENTS Just in case! + Y
  - PB025 EDWARD Brand new wordpro. V.0005 + Y
  - PB026 AGRAPH Super program graphing data + Y
  - PB028 LITTLE OFFICE Integrated Wpr, Set, Base, Gls + Y
  - PB029 ADDRESS PRINT Good label printing program + Y
  - PB030 THE MONTH PRODUCE (home accounting) + Y
  - PB031 EASYCALC A superb new Fast spreadsheet! + Y
  - PB032 PAY ADVICE Keep record of payrol! + Y
  - PB033 A BE A shareware database program + Y
  - PB034 LLNOCIS LABELS Super label program! + Y
  - PB035 BUDGET Budget (home accounting) + Y
  - PB036 CHECKBOOK ACCOUNTANT V2.01 superb! + Y
- ### UTILITIES
- PU002 A-GENE Good genealogy program + Y
  - PU004/5 A&A EMULATOR NEW VERSION 2.0 (2) + Y
  - PU006 Euphoric, Roach, Moultrann, groll + Y
  - PU010 ARP 1.3 Amigadeo requester system! + Y
  - PU012 ASJ GRAFTX UTILS graphics converters etc + Y
  - PU013 ASJ BOOT UTILITIES bootbook utilities + Y
  - PU015 BIOHYTHMS, STARCHART 2 Good programs + Y
  - PU021 C-LIGHT RAY TRACER Good program + Y
  - PU022 CHEMESTHETICS molecule displayer + Y
  - PU029 CURSOR BASIC COMPILER Just what you need! + Y
  - PU037 D-COPY The best PD disk copier + more + Y
  - PU039 DSW The forerunner to Skuld 3D III + Y
  - PU045 DYNAMITE FONTS II Gndrunner fontsets + Y
  - PU049 DYNAMITE FONTS More CufnFasci Fonts + Y
  - PU055 ELECTROCAD DEMO circuit designer + Y
  - PU058 FONTS AND RAM MANAGER Big video fonts + Y
  - PU059 FONTS & UTILITIES Various misc programs + Y
  - PU062 GRAPHIC UTILITIES Various misc programs + Y
  - PU063 HAMLAB PRO V2.08 Converter VGA PC > IFF/HAIF + Y
  - PU064 HARDDRIVE UTILS MRBackup & FixDisk + more + Y
  - PU065 ICONMANIA Program icons + more! + Y
  - PU066 ICONS Crann packd with icons! + Y
  - PU067 MPO-DR V4.0 Megacopying Util + Y
  - PU069 JAZZBENCH Alternative Wb for 1.2/3 users
  - PU071 JR COMM 1.02 Modern users comms package + Y
  - PU072 METALLION UTILS Font Editors & more util's + Y
  - PU076 KIBED JAMMER 3.0 Gndrunner fontsets (4) + Y
  - PU078 M-CAD Htes design package, Excellent + Y
  - PU080 MESSY-SIO 2 Read/Write PC Files, Brilliant! + Y
  - PU083 MORSE PROGRAMS for the radio hams + Y
  - PU084 GRAPHIC WINDOWSPRINTER Window printer + Y
  - PU085 MPO-DR V4.0 Megacopying Util + Y
  - PU089 JAZZBENCH Alternative Wb for 1.2/3 users
  - PU071 JR COMM 1.02 Modern users comms package + Y
  - PU072 METALLION UTILS Font Editors & more util's + Y
  - PU076 KIBED JAMMER 3.0 Gndrunner fontsets (4) + Y
  - PU078 M-CAD Htes design package, Excellent + Y
  - PU080 MESSY-SIO 2 Read/Write PC Files, Brilliant! + Y
  - PU083 MORSE PROGRAMS for the radio hams + Y
  - PU084 GRAPHIC WINDOWSPRINTER Window printer + Y
  - PU085 MPO-DR V4.0 Megacopying Util + Y
  - PU089 JAZZBENCH Alternative Wb for 1.2/3 users

- PU089 JAZZBENCH Alternative Wb for 1.2/3 users
  - PU071 JR COMM 1.02 Modern users comms package + Y
  - PU072 METALLION UTILS Font Editors & more util's + Y
  - PU076 KIBED JAMMER 3.0 Gndrunner fontsets (4) + Y
  - PU078 M-CAD Htes design package, Excellent + Y
  - PU080 MESSY-SIO 2 Read/Write PC Files, Brilliant! + Y
  - PU083 MORSE PROGRAMS for the radio hams + Y
  - PU084 GRAPHIC WINDOWSPRINTER Window printer + Y
  - PU085 MPO-DR V4.0 Megacopying Util + Y
  - PU089 JAZZBENCH Alternative Wb for 1.2/3 users
  - PU071 JR COMM 1.02 Modern users comms package + Y
  - PU072 METALLION UTILS Font Editors & more util's + Y
  - PU076 KIBED JAMMER 3.0 Gndrunner fontsets (4) + Y
  - PU078 M-CAD Htes design package, Excellent + Y
  - PU080 MESSY-SIO 2 Read/Write PC Files, Brilliant! + Y
  - PU083 MORSE PROGRAMS for the radio hams + Y
  - PU084 GRAPHIC WINDOWSPRINTER Window printer + Y
  - PU085 MPO-DR V4.0 Megacopying Util + Y
  - PU089 JAZZBENCH Alternative Wb for 1.2/3 users
- ### AGATRON
- AGA01 RED LOTUS Spinning down the road, Fantastic!
  - AGA02 JET FIGHTER landing on a runway, basic anim + Y
  - AGA03 STAR TREK - Shuttle fly past - Great! 1m + Y
  - AGA04 KINGDOM CRUISER Flying around your screen!
  - AGA05 STAR TREK KLINGON fires torpedoes 1m + Y
  - AGA06 LOGO, plus a great star war fly by animation.
  - AGA07 STAR WARS FIGHTER doing loops etc! + Y
  - AGA08 STAR WARS a great anim of the star wars movie (CLL)
  - AGA09 STAR WARS - Fighter fly by, impressive 1m + Y
  - AGA10 STAR TREK - Enterprise in dry dock, Incredible!
  - AGA11 TRON - Tank v Destroyer, Good vectors + Y
  - AGA12 TRON ANIMATION - Not one of the best!
  - AGA13 ROBO 1 A nice ray traced robot waving 1m + Y
  - AGA14 STAR TREK Workbe & Reliant, 3 shots + Y
  - AGA15 LOTUS CAR, Billards, & Jet Fighter animations!
  - AGA16 STAR TREK Various anims from the star trek game + Y
  - AGA17 STAR TREK WACK animation Short but okay + Y
  - AGA18 STAR TREK - Enterprise fly by, Short anim + Y
  - AGA19 BOND ANIM - Copier plus a car, not too amazing!
  - AGA20 Huey 2 a helicopter leaving a landing pad + Y
  - AGA21 ENTERPRISE APPROACHING with good animation!
  - AGA22 ENTERPRISE APPROACHING starting anim 11M + Y
  - AGA23 FLEET MANOEUVRE Stunning animation! 1m + Y
  - AGA24 KILL PEN ANIMATION & Ping pong, Great! 1m + Y
  - AGA25 THE RULN, a superb cut chase 1mg + Y
  - AGA26 SHIP ROCK AT KHARN (3) Incredible 2m demo Y
  - AGA27 BOOK OPENING Nice anim of a book opening.
  - AGA28 SHUTTLE & ENTERPRISE Fan anim by Richter!
  - AGA29 MILLENIUM FALCON The ship being chased 1M
  - AGA30 REPUBLIC ANIMATION a good animation 1m + Y
  - AGA31 PORSCHE anim rising out of table 1mg + Y
  - AGA32 SPACE - Space probe flying away 1m + Y
  - AGA33 PROBE Bnd of grey station & Kingpin! 1m + Y
  - AGA34 SPACE OFFICE Star trek anim, a little short + Y
  - AGA35 AGATRON SPECIAL 2 A great anim of rocket zooming off!
  - AGA36 BIRD OF PREY, loop the loop animation 1m + Y
  - AGA37 SOBIES GOES KNAKERS - Check this out! 1m + Y
  - AGA38 TOTALLY WICKED! Shuttle & Enterprise (2 MEG)
  - AGA39 AGATRON SPECIAL 3 A great anim of rocket zooming off!
  - AGA40 AGATRON SPECIAL 4 A 3 disk anim, lots only + Y
- ### POWERANIMS
- PO012 ANTI LEMMINGS (2) This is Brilliant! 2M
  - PO03 AT THE MOVIES Cute anim of Any squirrel 1.5M + Y
  - PO047 AUTOMATED LIGHT (4) Brilliant graphical 3M
  - PO0810 BUZZED (3) Good animation 1.5mg + Y
  - PO01112 CAT IN THE HAT (2) Very witty, Get it 3.5M
  - PO016 GULF WAR ANIME ES production! Good 2.5M
  - PO018/20 LOST IN SPACE (3) Good cut tv anim! 2M
  - PO014 LANDING (4) Tobias Richter powers 4M
  - PO025/27 STATION AT KHARN (3) Incredible 2m demo Y
  - PO047 WALKER DEMO (2) A 2mg version of a classic!
  - PP04/3 AT THE MOVIES II (4) Hilarious 1mg-3mg
  - PP04/4 SWEE V WALKER II (2) Another witty ES demo 3M
  - PP04/6 SWEE REVENGE Coyote vs Roadrunner 2.5mg
  - PP04/7 JUNGSPORC Incredible animation by Schwartz! 2M + Y
  - PP05/2 CHARLY CAT Super Shearlike cartoon 2mg + Y
  - PP05/3 CHARLY CAT AT THE BEACH 2nd fab anim 2mg! + Y
  - PP05/4 CHARLY CAT CATCHES A CANARY Fab! 3MG
  - PP05/5 CHARLY CAT CATCHES A CANARY Fab! 3MG
  - PP06/4 DUNCAN DUNG BEEST! Unusual 2mg animation! + Y
  - PP06/6 CHARLY CAT SNOWGLOBE Latest anim 2mg + Y
  - PP06/7 SPEED LIMIT 3mg motorcycle race! + Y
  - PP07/1 LEMMINGS REVENGE Very amusing anim! 2mg + Y
  - PP07/4/8 G.I. SPY Great cartoon cut butler! (3)
  - PP07/7/8 THE HAUNTED Tremendous animation 3mg! (8)
  - PP08/5/7 THE AD Strange swartlike animation 3mg (3)
  - PP08/9 SPORTING DOO DOO Nice new animation! 2mg(2)
  - PP09/1 ROADRUNNER MINTROT Very funny 2mg animation! + Y
  - PP09/12 SPAR TRUCK Amusing animation, 2mg (2) + Y
  - PP09/3/98 DUNK'S BACK New Duncan anim, 5 disks 4mg!
  - PP09/10/11 AT THE FLX Charlie cat anim (2) 2mg
  - PP10/14 GULF WAR ANIME ES production! Good 2.5M
  - PP10/25 SATELLITES REVENGE Good anim! (2) 2M
  - PP10/7 DAMBUSTERS Lancaster bomber 1m! (2)M
  - PP10/10 CHARLY CAT IN SICKNESS & HEALTH! (3)mg!
  - PP11/12 BUNNYBUNNY & SPACEMAN Action
- ### DEMOS
- PD002 ALARM MEGADEMO Acid type video demo! + Y
  - PD005 AMOS 3D DEMO Shows some great effects! + Y
  - PD015 BRONX WHAT A RUSH Quite a nice demo! + Y
  - PD018 CHAOS ROCK Fab light show with light effects! + Y
  - PD022/25 ALCATRAZ MEGADEMO Huge, on 3 disks!
  - PD026 PHENOMENA ECES light source vectors! + Y
  - PD028 PHENOMENA ENIGMA Absolutely brilliant! + Y
  - PD076 PLASMUTUL Good anim plasma & green! + Y
  - PD077 PAK ALPHABET (OMEGA Superb vector demo)
  - PD093 SCOOPEX CHROMIUM Superb demo + Y
  - PD094 SCOOPEX METAL HANGOVER A classic!
  - PD097 SILENTS GLOBAL TRASH Incredible! + Y
  - PD121 ANDROMEDA DECRYING PARADISE Good! + Y
  - PD128 DIGITAL LETHAL EXT Good vectors demo! + Y
  - PD136 TRACKERS POWER & AGON! Unusual vectors! + Y
  - PD142 FINAL CONFESSION MUSIC & Plasma effects! + Y
  - PD154 DECAF GET FROGGED Superb quality! + Y
  - PD156/7 REAL EMPATHY Good Demo & Fab game inc!
  - PD168 DIGITAL MINDROT Very good vector demo! + Y
  - PD159 ANARCHY IN THE KITCHEN Some good FX Fab!
  - PD160 ANDROMEDA POINT BLANK Cray polygon effects!
  - PD164 DESIRE MENACE Good Psycho rave demo + Y
  - PD165 DARK DEMON Mega new demo .... get it! + Y
  - PD167 ANALOG FALL EN Excellent demo!
  - PD168 MELON DEZION 808 A classy new demo
  - PD169 BIG BANG Excellent space-type demo
  - PD170 PIECE OF MIND Good 3D vector effects + Y
  - PD171/2 SILENTS EXPOSE (2) Incredible! Get it! + Y
  - PD178 TRIS TIME ZONE Nice good effects! + Y
  - PD181 CINEMORPH Fab morphing of 4 faces! 1mch! + Y
  - PD182 SPACEBALL Absolutely brilliant 1mgch! + Y
  - PD183 DIGITAL LETHAL EXT Good vectors demo! + Y
  - PD184 ANDROMEDA MINDROT Very good vector demo!
  - PD185 ANDROMEDA MIRROR Fab Music & Graphical + Y
  - PD187 HOW AGA DEMO 1st 1200 demo, must! 1200 ONLY!
  - PD188 SANITY WORLD OF COMMOODORE Super demo + Y
  - PD189/90 SILENTS DEMON DOWN CAD Fab demo (2) + Y
  - PD191/3 ALPHA OMEGA 2 3 disks extravaganza! (3)
  - PD194/8 DETONATION 3 disk pc & anim set(3) + Y
  - PD197 MOBIL DESTINATION UNKNOWN by Spacebals + Y
  - PD198 FACULTY BRILLIANCE inc Ray traced jets!
  - PD199 TRIS MISERY DENTRO Unusual effects + Y
  - PD200 PHOENIX DEMO inc Flashy rave demo! + Y
  - PD201 1200 INTROS Yes, some AGA intros at last! + Y
  - PD202 TECHNOLOGICAL DEATH Feisty techno rave + Y
- ### MUSIC DISKS
- PM001 100 GREATEST 64 TUNES 100 hit 64 disks + Y
  - PM004 ALCATRAZ THE BEST OF MUSIC of song by Smp + Y
  - PM005 ALCATRAZ MORE THAN MUSIC A superb disk!
  - PM006 ALCATRAZ SOUNDS OF ENERGY 4 house! + Y
  - PM010 AMEGA PARTY WINNERS FOUR WICKED songs + Y
  - PM013 ANARCHY CAPTURED IMAGINATION Nice music!
  - PM015 BEATLES BOX New music CD Fab demo (2) + Y
  - PM018 BEATMASTER LOVE TECHNOLOGY Rave 1 + Y
  - PM019 BRUNO'S MUSIC BOX II Super jazz funk music + Y
  - PM020/21 BRUNO'S MUSIC BOX III Jazzfunk, Get it! + Y
  - PM026 DEPECHE MODE MUSIC Superbly recorded tunes! + Y
  - PM027 CANON MUSIC 3 House music, nice, good + Y
  - PM030/34 DIGITAL CONCERTS 2-6 Excellent house/dance!
  - PM041 EQUAMANIA II Dance music track & equals! + Y
  - PM047 GOLDFIRE CEREBRAL DELIGHTS (2) Nice! + Y

- PM052 KEFRENS JUKEBOX Lovely music & graphics!
  - PM058 MAG FIELDS CHIP FESTIVAL Full of music!
  - PM059 MANIACS OF NOISE This is brilliant!
  - PM061 NEWTONS MUSIC BOX Headbanger!
  - PM065 PHENOMENA MUSIC DREAMS 1 20 tracks!
  - PM069 RAZOR FACE ANOTHER DAY very good!
  - PM070 SILENTS SINFUL HOUSE (2) + Y
  - PM073 SILENTS FULL POWER House it up!
  - PM074 SOUND OF SILENTS Jut get this! 8mg!
  - PM079 TECHNORONX REMIX Good remix!
  - PM082 ANO TRONIX Nice piano songs - good!
  - PM085 HARDCORE III Techno dance track!
  - PM096 STARTRUCK To Haveno dance track!
  - PM100/103 MANNIC RAVES I Fantastic rave music!
  - PM104 500 THINGS COMEBACK 4 great rave tracks!
  - PM115/6 CHROME Brilliant music disks 1 + Y
  - PM112 TECHNOCHAMIA II 8 essential hardcore tunes!
  - PM113 PHOTON GATES OF TIME 6 good pieces!
  - PM114 UPROAR SPLIT BEAVER MIX rave music!
  - PM115 PLAYERS MUSIC 20 tracks! + Y
  - PM117 MUZAK OF THE WORLD original Amiga!
  - PM120 IDEAL MOE AEROSOL, EP G rave!
  - PM121 NIGHTBRED MUSIC DEMO 8 Rave tracks!
  - PM122/4 PLAYSD 2 (3) You must get this!
  - PM125 PLAYERS MUSIC 20 tracks! + Y
  - PM134/5 SOUNDS OF SCIENCE (2) Absolutely!
  - PM137 KEFRENS MEGAMIX II Very good! + Y
  - PM138 EPOTICA 6 Mega mix, inc crockets tracks!
  - PM140 SPRING MEGAMIX (2) 9 tracks! + Y
  - PM141 HARDLINE MUSIC 7 groovy synth-style!
  - PM142 FRACTAL MUSIC Very well presented!
  - PM145 PARADISE TECHNO POWER Great tunes!
  - PM146/7 ROLLING GOOD music on a lake wave!
  - PM148 DIGITAL DEBRIS II nice music!
  - PM151 INTENSE RAVE VISION A very good!
  - PM152 PARADISE: NO BRAIN NO PAIN Good!
  - PM153 BINE: KILL DA BOMB 6 tracks of rave music!
  - PM154 PULSE Very pulsating rave music!
  - PM155 VINE G-HAVE 5 more good rave tracks!
  - PM156 VIBRANCE PHONOBOX! Four good!
  - PM161 CYBERNETIX 19 songs packed on 1 disk!
  - PM162 MORE MED TUNES Fab tracks by Amiga!
  - PM163 MEGAMIX 2000 20 tracks! + Y
  - PM164 OCTAROCK 30 More 8 track & 3d games!
  - PM167/8 JESUS ON ES Crazy rave music demo!
  - PM169 BRAINSTRONG MUSICLAND Nice music!
  - PM170 GARDEN OF EDEN 20 tracks! + Y
  - PM173 CDTV MUSIC Super graphics & sound!
  - PM176 TUNE UP THE BASE Kick Rave music!
  - PM177/8 LEGALISE IT 2 Some really cool music!
  - PM179 PLAYSD V2 2 more 64 disk music!
  - PM180/1 PASTEL VANILLA Super cool amig!
- ### CLASSICAL MUSIC
- PM012 AMIGADEU CLASSICAL Eine Klauer
  - PM022/23 CLASSICAL MUSIC Bach, Handel etc!
  - PM035 DIGITAL DEBUSSY Fab Rock Baxter concert!
  - PM036 DIGITAL DEBUSSY II more classical!
  - PM070 RHAPSODY IN BLUE tracked by Rob Smp!
<



# PD SCENE

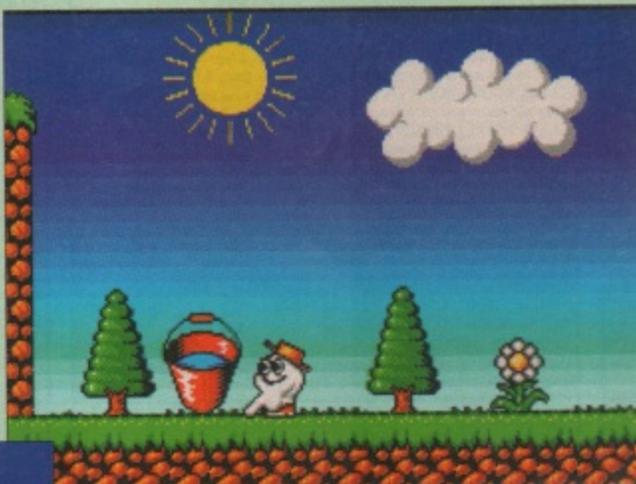
**Nerves of steel, heart of gold, knob of butter...yes, it's Tony 'and his' Horgan with another monthly guide to all things public domain.**

## WIBBLE WORLD GIDDY

**game**

This is the best PD game since *Transplant*. If you think it looks and sounds rather familiar, you'd be right, as it bears more than a passing resemblance to the *Dizzy* games.

Giddy is the star of the game, an egg-like character with unfeasibly large hands. Wibble World is a colourful flip-screen comic book land, where slippery snakes mingle with spiders, Ninja Turtles and seagulls. There's plenty to get the grey matter working too, with lots of little puzzles to solve along the way. The problems don't amount to any more than using the right objects in



the right places, but what do you expect for a couple of quid?

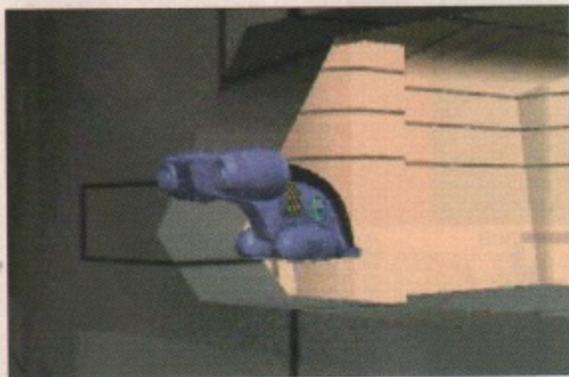
Not only is it one of the best looking PD games ever, it's one of the most playable too. Slick from start to finish, *Wibble World Giddy* is one game not to be missed.

Available from: Cynostic PD, 85 Wyken Croft Road, Coventry, CV3 2AD. Tel: 0203 613817. Disk no. G0112. Price: £2.00 (including P&P).

**91%**

## HEADING FOR HOME

**animation**



It's amazing how little you can fit onto four disks if you try hard enough. Would you believe this 3Mb animation is only about 10 seconds long? Then again, that's HAM ray tracing for you.

Space is the theme once again. The sequence is about as simple as they come - a stumpy little spaceship orbits a planet, then enters the docking bay of a spacestation. It's very nicely done, with lots of different pans and camera angles, but nothing actually happens. Unless you're into ray tracing yourself, there's not much to get excited about, even though technically it's quite neat.

Available from: PD Soft, 1 Bryant Avenue, Southend on Sea, Essex, SS1 2YD. Tel: 0702 466933. Disk nos. 3069-3073. Price: £11.00 (including P&P).

**62%**

## HOW TO SKIN A CAT

**demo**

Melon Design always come up with something a bit different. This one's completely free of the usual scroll-text and techno-babble of most demos, and looks a lot better for it. Starting with a tunnel made of tiny dots, it moves through some interesting effects such as jelly vectors, blurred 3D dot patterns, and a few more variations of the basic vector themes.

It's supposed to have AGA graphics support, but it doesn't seem to be much different whether you run it on a 500 or a 1200. There's a good simple soundtrack that suits the arty laid-back style of the graphics. You won't be bowled over by reams of stunning effects, but it's worth a go if you've had enough of the usual demo fare.

Available from: Cynostic PD, 85 Wyken Croft Road, CV2 3AD. Tel: 0203 613817. Disk no. D0138. Price: £2.00 (including P&P).

**80%**



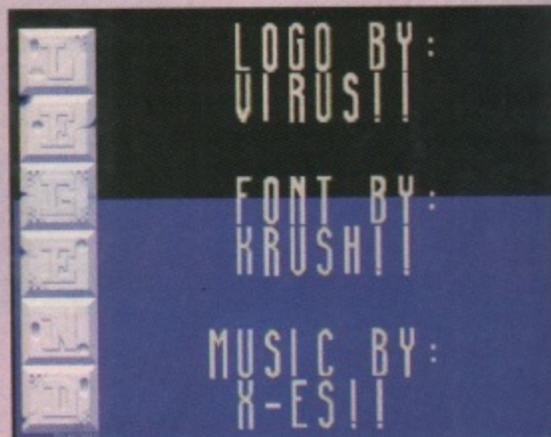
## NO LIMITS

**music disk**

2 Unlimited fans are spoilt for choice this month. The inescapable *No Limits* gets the remix treatment first, with this disk from Legend. There are two main alterations here. The tempo has been pushed right up, and there's a more hardcore sound to the backing beat. Some of the samples haven't been pitched up accordingly, and get cut off early. It's not radically different from the original, but should please fans of the duo.

Available from: PD Soft, 1 Bryant Avenue, Southend on Sea, Essex, SS1 2YD. Tel: 0702 466933. Disk no. 3088. Price: £3.00 (including P&P).

**70%**



## SCOOPLEX PLAYS 2 UNLIMITED

**music disks**

It's three for the price of two disks with this one. *Get Ready For This*, *Twilight Zone* and *The Workaholic* are on the menu. All three tunes are created from the rap versions, with big chunks of vocals included. The mixes have been chopped up and messed around a bit with a tracker, but there aren't any new sounds, beats or riffs. Considering the length of the samples, the sound quality's not bad at all, but they're all a bit too unadventurous to cause much of a commotion.

Available from: PD Soft, 1 Bryant Avenue, Southend on Sea, Essex, SS1 2YD. Tel: 0702 466933. Disk nos. 3139+3140. Price: £5.50 (including P&P).

**65%**



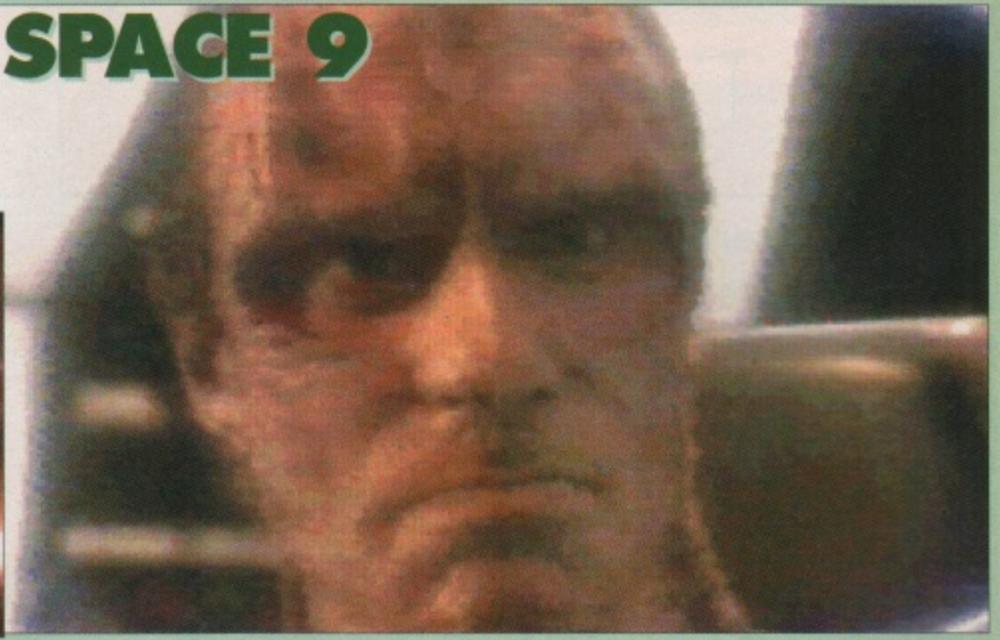
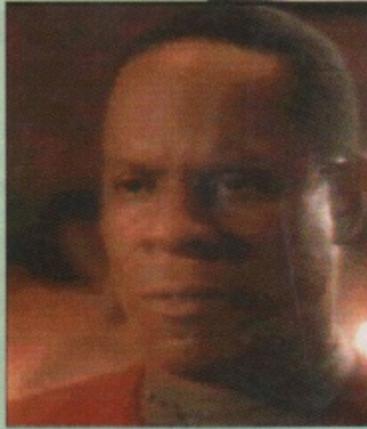
# STAR TREK DEEP SPACE 9

## slideshow

The title screen proudly boasts 'The first available slideshow of *Deep Space 9*'. That may be, but in their rush to get it released, the producers have ended up with one of the roughest slideshows I've seen for ages. All the screens are in 4096-colour HAM mode, but are either blurred, grainy or too dark. Its saving grace is the subject matter.

Available from: PD Soft, 1 Bryant Avenue, Southend on Sea, Essex, SS1 2YD. Tel: 0702 466933. Disk no. 3108. Price: £3.00 (including P&P).

50%



## CRASH BANG WALLOP game

Could this be one for *Super Sprint* fans? It should be, but falls some way short of the mark, despite a good start. Where you'd normally get the sounds of a roaring Ferrari to match the intro screen, you're greeted with a sampled Robin Reliant that refuses to start. The trouble is, it's quite appropriate.

Viewed from above, it's a simultaneous two-player car racer spread over 10 tracks. If you look hard enough, you should find some semblance of inertia, speed, and laws of physics in general, but to say the cars moved realistically would be rather generous. I've got a bit of a soft spot for this type of game, but even so, *Crash Bang Wallop* didn't exactly have me gagging for another go. Then again, as PD games go, it could be a lot worse.

Available from: Cynostic PD, 85 Wyken Croft Road, Coventry, CV3 2AD. Tel: 0203 613817. Disk no. G0110. Price: £2.00 (including P&P).

59%



## ASSASSINS GAMES game compilation



Butter up the Hovis, it's nostalgia time! *Aztec Challenge* is now available for your Amiga! Retrocoders Bignonia have converted the crumbly old C64 game to 16-bits. It comes in two flavours, the original blocky variety, and a slightly smoother-looking Amiga update. The game is a seven-level romp set in ancient Inca country. As the brave young warrior, you take on a variety of life-threatening challenges in your attempt to find the mystical hidden gold (or something like that). It's brilliantly crap – identical to the original in every respect.

You also get another two games on the disk. *Landmines* is a tediously simple game of chance, and *Jonus Fulstrand* is a promising little platform game, let down by lack of speed. Be warned: you need a sense of humour to appreciate this disk. Available from: Assassins, 32 Ripley Avenue, North Shields, Tyne and Wear, NE29 7SA. Tel: 091 2586418. Price: £1.00 (including P&P).

80%

## SIMPLY THE BEST NO. 41 demo compilation

More demo-foolery as compiled by LSD comes your way in *Simply the Best 41*.

*Sometimes I Wish I Was Famous* is an intro from Circle, featuring some weird samples and interesting variations on the current fave effects. There's a BBS intro from Dark Demon, sporting some clever rotating cog-wheel effects, but best of all (yes, it gets better!) is the trackmo from Defiance, called *Shangri La*, which makes up for the inadequacies of the other demos on the disk. Derivative in places, it's still impressive enough to warrant the attention of all armchair ravers.

Available from: Cynostic PD, 85 Wyken Croft Road, Coventry, CV3 2AD. Tel: 0203 613817. Disk no. D0136. Price: £2.00 (including P&P).

79%



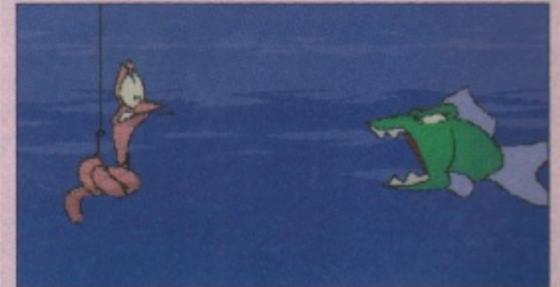
## BAIT MASKING animation

Fish-fanciers, this is the demo for you! It's another from Eric Schwartz, and fits into any machine with 2Mb of RAM.

The opening shot is of a worm on a hook, slowly sinking beneath the surface of a river. Along comes a fish, who takes a fancy to the worm. To save his skin, the worm quickly puts on a scary mask, which sees off the hungry fish. Later, the fish comes back with his own mask, and the two end up spooking each other. All the Schwartz trade marks are in there, but it's far from his best. Even so, it's another one for the collectors.

Available from: Cynostic PD, 85 Wyken Croft Road, Coventry, CV3 2AD. Tel: 0204 613817. Disk no. A0074. Price: £2.00 (including P&P).

77%



# PD UTILITIES

**What's extremely handy and available to anyone for next to nothing? No, it's not Tony Horgan, but the latest and greatest PD utilities.**

## ADVANCED UTILITIES II utility compilation

Here's another of those handy disks with a sprinkling of various utilities. Those included are *Restaure*, *Re-Org*, *SCSI Mounter*, *Compress Disk*, *Enforcer*, *Keymap Ed* and *KME*, some of which need Kickstart 2.04 or higher to run.

*Restaure V1.0* is an easy-to-use disk salvager. It's not an alternative to *Diskdoctor*—instead it helps you get back files that have been deleted. When you delete a file from a disk, the actual data isn't blanked out, it's merely scrubbed from the directory list. This means that providing you haven't written back to the disk after deleting a file, *Restaure* can usually get it back for you. This could save your bacon one day.

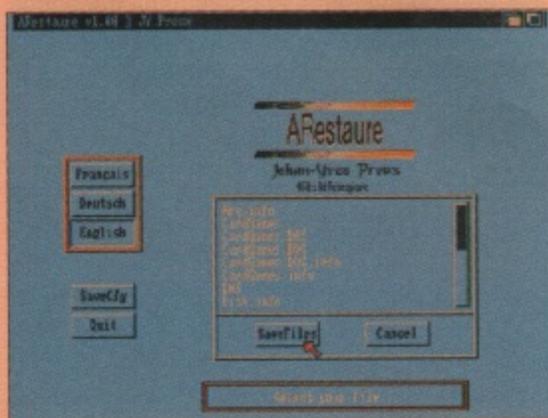
*Re-Org V2.33* is a disk optimiser. If you do a lot of reading and writing to the same disks, they gradually become fractured. This makes loading and saving a lot slower, but an optimiser can put it all back into order. *Re-Org* does a good job of it, but remember to backup any data before you optimise it.

*SCSI Mounter* is a removable partition mounter for SCSI devices, *Compress Disk V1.0* is a disk archiver, and the remaining utilities are two remarkably similar keymap editors, both of which are simple to use and very handy.

There are some good utilities here, but it's a shame that PD Soft didn't organise the disk a bit better. All the programs have just been thrown onto a non-booting disk, with all the directory icons piled on top of one another. Come on PD Soft, if you're charging £3 per disk, you could at least put in a bit of effort on the presentation.

**Available from: PD Soft, 1 Bryant Avenue, Southend on Sea, Essex, SS1 2YD. Tel: 0702 466933. Disk no. V1067. Price: £3.00 (including P&P). Memory: 1Mb. Compatibility: Kickstart 2+.**

**80%**



## AMOSSIBLE amos extensions

There's nothing more frustrating than a program that refuses to work. As programming languages go, AMOS is pretty user friendly, but some of the shortfalls in the manual can leave you pulling your hair out. AMOSSIBLE aims to unravel some of those undocumented mysteries.

Most of the disk is filled with short demonstration programs to be loaded into AMOS. Covering many areas that are overlooked by the manual, they come packed with explanatory 'REM' statements to help you figure out what's going on. There's nothing radical in the routines themselves, but they should be a big help with your day to day programming.

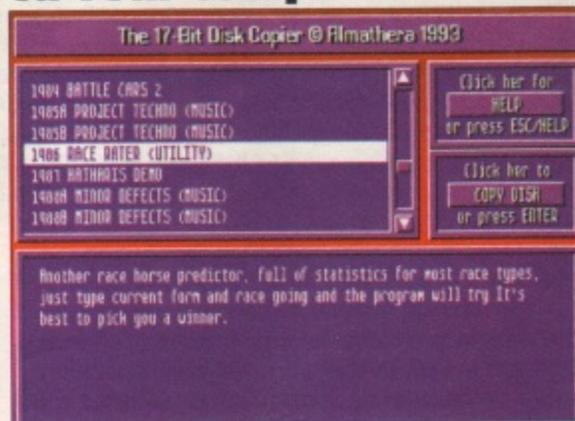
**Available from: Mark Wickson, 49 Perrott Close, North Leigh Witney, Oxon, OX8 6RU.**



**Price: £1.50 (including P&P). Memory: 1Mb. Compatibility: All Amigas.**

**78%**

## 17 BIT COLLECTION CD-ROM cd rom compilation



This is the best use of an Amiga CD-ROM I've seen. 17 Bit have filled two CDs with some of the best PD around. There's over 1000Mb of data across the discs, including utilities, demos, games, graphics, music, samples, clip art and animations.

When you boot either of the CDs, you get a rather tacky file selector. Each file has a brief bit of text to go with it, telling you whether it's a utility, clip art or whatever, with a brief explanation of what it's all about. All of the disks have been archived on the CD, so you can't access any of them directly. Instead you need to copy them onto floppies first, and then boot them as usual. It's a bit of shame that you have to do this, but it is necessary to ensure that all the software still works as it should.

If you've got a CDTV, you may find that a lot of the disks won't work without extra memory.

This is an enormous source of PD software. For £39.95, you're getting one of the bargains of the century. Anyone with a CD drive should get a copy pronto.

**Available from: 17 Bit, 1st Floor Offices, 2/8 Market Street, Wakefield, West Yorkshire, WF1 1DH. Tel: 0924 366982. Price: £39.95 (including P&P). Memory: 1Mb plus.**

**90%**

## MENUMASTER III menu creator

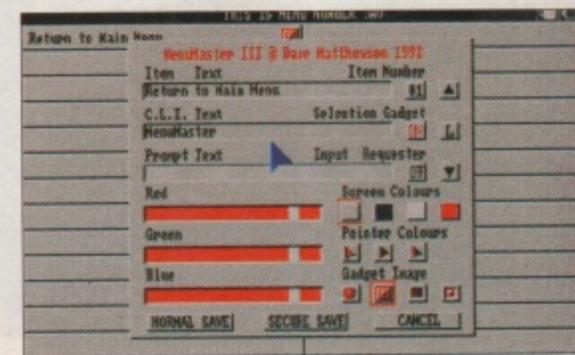
If you release PD software yourself, you've probably got hacked off with trying to make your disks idiot-proof. One of the best options is to put a menu on the front, but what if your programming talents are non-existent? *MenuMaster III* will do the trick.

It's by far the simplest and most straightforward menu creator I've used. The creator and the menu are combined in one program. When you boot up, you get a blank menu, which you then fill in to suit your requirements. Each line of the menu has a string of text that's displayed on the screen and a corresponding CLI command. Clicking on the line has the effect of entering the command in the CLI running in the background. You can also use menu options to launch new menus, with more options of their own.

**Available from: Alpha PD, 3 Whickham Street, Easington, Peterlee, Co. Durham, SR8 3DJ.**

**Disk no. 181. Price: £1.45 (including P&P). Memory: 512K. Compatibility: All Amigas.**

**82%**



## 3D OBJECTS

### Sculpt 3D files

Building your own 3D objects for ray-tracing can be very time-consuming. If you could just pick what you wanted from a list of pre-drawn objects, the whole process would be a lot quicker. That's the thinking behind this disk from PD Soft which contains 13 quite complex objects in *Sculpt 3D* form, unrendered and ready for you to load into any scene you like.

They're split into three categories: furniture, street objects and cannon. Among the items of furniture are a four-poster bed, a chair, an ornate mirror and a lamp. The street objects have a couple of street lights, a set of traffic lights and a signpost. Then there's the cannon set, which has a cannon, balls, a plunger and a bucket.

Rendered IFF screens are included to give you an idea of how they'll look, and very nice they are too.

Available from: PD Soft,  
1 Bryant Avenue,  
Southend on Sea, Essex,  
SS1 2YD. Tel: 0702  
466933. Disk no. V1061.  
Price: £3.00 (including  
P&P). Memory: 1Mb.  
Compatibility: All  
Amigas.

81%



## FRACTAL COMPILATION

### fractal generators

A batch of seven fractal utilities have been rounded up for this disk, covering the entire range from abstract graphics to landscape generators.

*Cloud* is an old 2D generator which, as you've probably guessed, specialises in atmosphere and cloud effects. It's a doddle to use, and produces some useful backdrops. By changing between the four default palettes (atmos, earth, water and therm), selecting one of four types of generation, and setting the zoom range, there's a wide variety of images you can create. The save option is disabled, but you can get around this with something like Quickgrab or Grabbit.

A standard Julia set plotter is included which, to be honest, is rather tedious these days. Much more fun is the curiously named *Bez Surf*. This plots strange 3D objects from a screen of

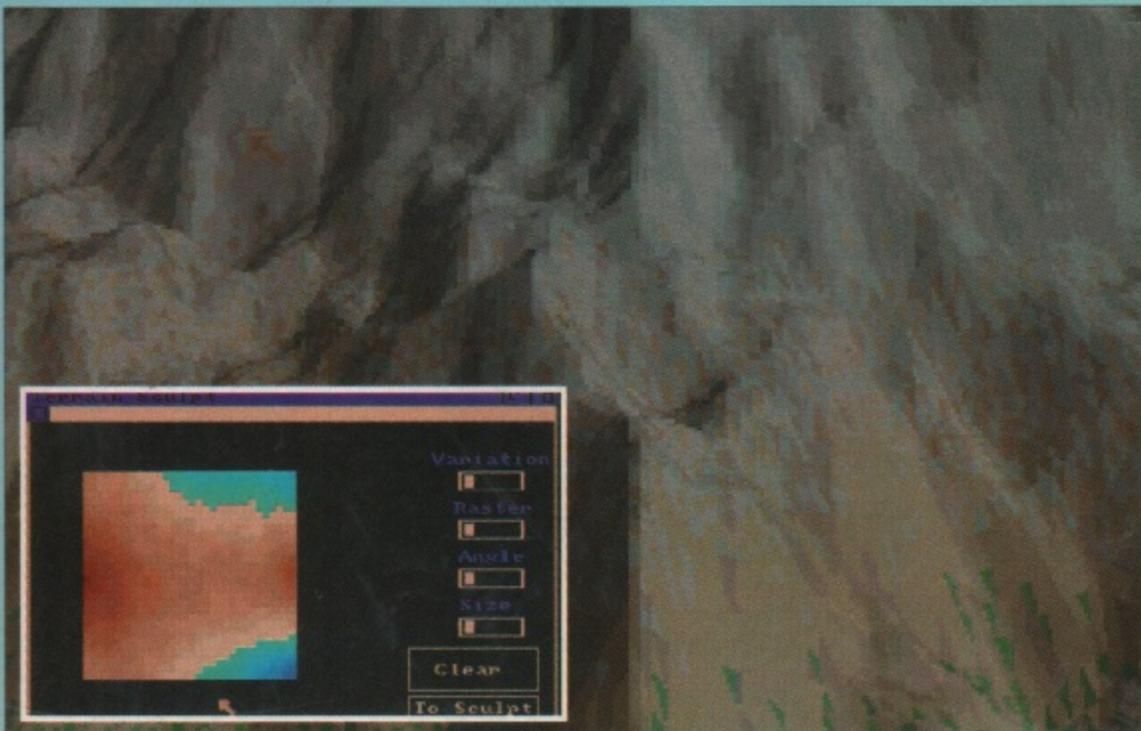
scrawled lines and curves. Next there's *Scenery*, an ancient 3D landscape generator. It's not the fastest around, but the results are still realistic.

*Mandelshow* draws out the usual Mandelbrot set, and *Mandelvroom* does very similar things with a bit more flexibility. *Terrain Sculpt* gives you a 3x3 block of squares, which you click on repeatedly to set each square's height. From this, the computer first generates a 2D fractal relief map, and then a 3D version.

Seasoned fractal-heads probably won't find here they haven't seen before, but if you're new to the game and just want to dabble, this is the best place to start.

Available from: Roberta Smith PD, 190 Fallon Way, Hampstead Garden Suburb, London, NW11 6JE. Tel: 081 455 1626. Disk no. CU103. Price: £1.40 (including P&P). Memory: 512K. Compatibility: All Amigas.

85%



## AGA UTILITIES 3

### 1200/4000 utilities

There's plenty on offer here for all you lucky A4000/A1200 owners – a whopping 10 AGA-oriented utilities are on the menu.

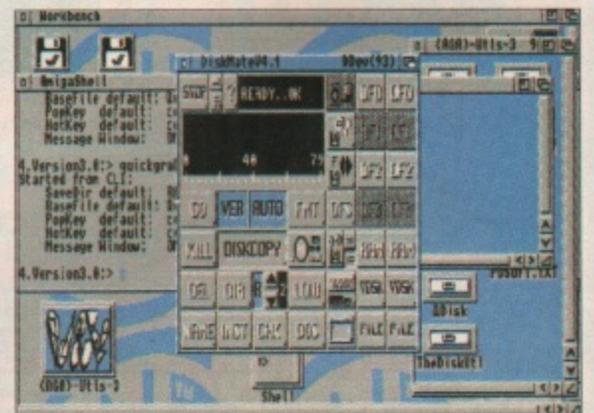
*CPU Clear 3.20* is a replacement for the standard Bitclear routine from the graphics library. The optimised routine can speed up certain operations by 60 per cent. *Degrader* attempts to overcome incompatibility problems by emulating the workings of 1.3 and 2.0 machines. Run in conjunction with the alternative boot options (old chip set and so on), you could find a few of your old disks revitalised.

*Diskmate 4.0* is a natty collection of disk tools, including a copier, formatter and the disk archiver DMS. *Fast GIF II 1.01* allows you to view GIF graphics files from Workbench. This version has an improved user interface and proper file requestors.

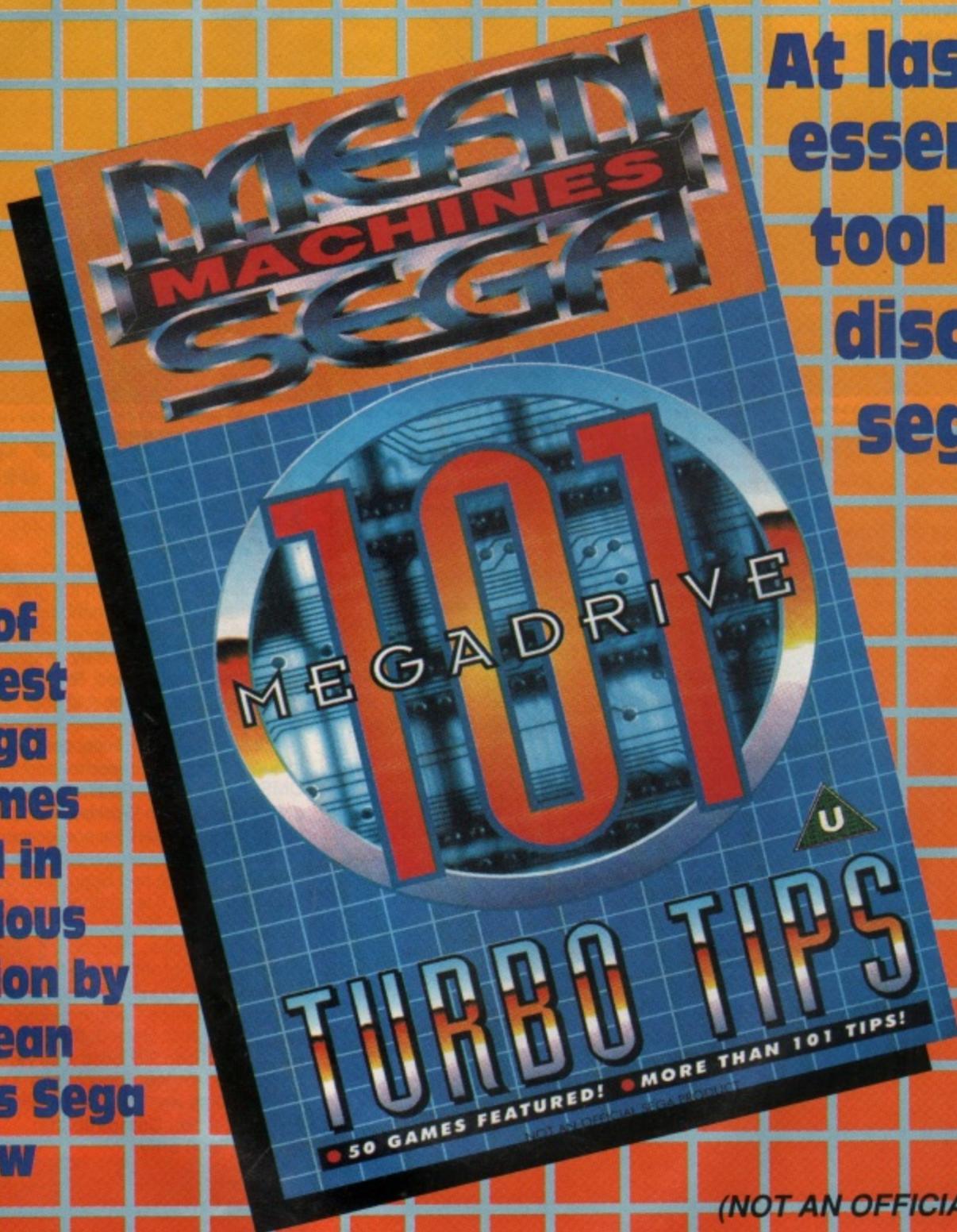
*QDisk 1.0* is a simple tool that lets you know how much space has been used on a device, and *The Disk Ute 2.0* is another disk copier/formatter. The difference with this one is that it can handle high density disks. *Workbench Genie 1.02* is an alternative program launcher, and *Workbench Verlauf* gives you a copperlist graduated backdrop using the 16 million colour palette. YAPS allows you to open and close public screens.

Available from: PD Soft, 1 Bryant Avenue, Southend on Sea, Essex, SS1 2YD. Tel: 0702 466933. Disk no. V1074. Price: £3.00. Memory: 2 Mb. Compatibility: A1200/A4000 only.

75%



# more tips than you can shake a stick at!



At last! The  
essential  
tool for the  
discerning  
sega gamer

Over 50 of  
the greatest  
ever Mega  
Drive games  
cracked in  
stupendous  
video vision by  
the Mean  
Machines Sega  
crew

(NOT AN OFFICIAL SEGA PRODUCT)

COMING SOON AT A STORE NEAR YOU FOR £7.99 (RRP)

**CARRIES THE MEAN MACHINES  
ASSURANCE OF SKILLABILITY!**



To Advertise In  
**CU AMIGA** Call  
 Chris or Kiera On:  
**071 972 6700**



### DIGITALLY MASTERED SAMPLES

#### IFF SOUND SAMPLE LIBRARIES

Each disk is compiled from a studio quality master and is sampled on the Amiga at twice the sample rate of P.D. sample disks. They are compatible with all P.D. and commercial tracker and sequencer programs. N.B. no. of samples in brackets.



001 AFRICAN	: Talking drums, Marimbas, chotts etc. (53)	014 BASS GUITARS	: Slap, picked, fretless, FX, etc. (44)
002 INDIAN INST	: Sitar, Bansuri, Chants etc. (19)	015 ANALOG BASS	: Oberheim, Roland, Korg, etc. (22)
003 INDIAN PERC	: Tablas, Bayas, Rhythm Loops etc. (35)	016 DIGITAL BASS	: Yamaha DX, Roland, Korg, etc. (28)
004 ARABIC	: Ud, Saz, Bendir, Rhythm Loops etc. (37)	017 BRASS	: Sections, Saxes, Trumpets, etc. (24)
005 FAR EAST	: Tibetan Bells, Yangqin, Koto etc. (31)	018 SYNTH BRASS	: Analog, Digital & L.A. etc. (18)
006 EUROPEAN	: Balalaika, Choirs, Bodhran etc. (34)	019 PIANOS	: Octave Splits, with strings, FX (16)
007 OCEANIA	: Didjeridu, Chants, Silt Drum etc. (23)	020 STRINGS	: Cello, Orch. Hiss, Sections, etc. (21)
008 AMERICAS	: Kena, Berimbau, Pan Pipes etc. (30)	021 SYNTH STRINGS	: Analog & Digital (19)
009 FX PERC.	: Power Toms, Snare & Bass, Scratch & Rap. (88)	022 CHOIRS	: Mixed choirs, with bells & synth (16)
010 DRUM KIT	: Bass & Snare, Hi-Hats, Cymbals & Toms (63)	023 ORGANS	: Church & Electric (17)
011 ANALOG PERC.	: TR-808, CR-78, Loops etc. (64)	024 BELLS	: Real & Synth, with Choir & Strings (20)
012 LATIN PERC.	: Timbales, Congas, Cabasas, Cowbells etc. (107)	025 SOUND FX	: Action Sounds, Explosions, Gunshots, etc. (30)
013 GUITARS	: Acoustic, Electric & Distorted etc. (41)		

Each Disk is priced at £2.50, any 10 for £19.95, the Complete Collection for £49.95. In addition, Sampler owners can use our Digitally Mastered Chrome, Metal, or DAT sample Cassettes which contain most of the above samples: COO1 WORLD MUSIC COLLECTION (175)

COO2 PERCUSSION COLLECTION (228)

P&P £1 (any order) Cheques & P.O.s to:

COO3 GUITARS AND BASSES (161)

WALKABOUT MUSIC (Dept. CU)

Each Chrome: £9.95, Metal: £11.95, DAT: £16.95.

TRENOVICK FARM, THE MOUNT, PAR,

The Three collection Package is priced at:

CORNWALL PL24 2DA

£21.95 (Chrome), £25.95 (Metal), £38.95 (DAT)

Tel: (0726) 813807

### Amivision Software present the NEW

## FORMULA ONE CHALLENGE v4

An incredibly addictive and detailed Formula One simulation for 1 to 4 players. Watch the races as they unfold with three levels of highlights. Crashes, spins, pile-ups, car failures, pitstops, weather changes, fastest & record laps. Four independent levels of difficulty. Accurate and detailed graphics of the teams, circuits etc.

15 teams, 2 cars per team, 50 drivers with varying skills, complete engine and tyre contracts. Choose tyre compounds, tune your engines, change wing settings, even train your pit crew! Qualifying, 16 accurate championship circuits, news section, realistic sound fx, load/save games, weather forecasts, statistics saved, latest FISA rules, full drivers and constructors championships (redesigned).

Includes full 1993 season. Details can be easily updated each year.

Incredibly addictive, produced by true Formula One fans.

This is the most realistic Formula One simulation, guaranteed.

JUST £14.95!

INCLUDES INSTRUCTION MANUAL

Vastly updated since v3, full details available. A1200 compatible.

PLEASE MAKE CHEQUE/POSTAL ORDER PAYABLE TO:- S. RENNOCKS

Dept. CU1, 1 Cherrington Drive, Great Wyrley, Walsall WS6 6NE

## LOWEST PRICED TOP QUALITY RIBBONS

	1 off	2+	5+		1 off	2+	5+
Amstrad DMP 2000/3000	2.80	2.65	2.45	Star LC10/20 Black	2.29	2.14	1.94
Amstrad DMP 4000	3.66	3.51	3.31	Star LC10/20 Colour	6.00	5.85	5.65
Citizen 120DL/SP10/Swift 24/9	2.85	2.70	2.50	Star LC200 Black	3.00	2.85	2.65
Citizen Swift 24 Colour	12.81	12.66	12.46	Star LC200 Colour	9.78	9.63	9.43
Commodore MPS 1220/1230	4.50	4.35	4.15	Star LC24-10/200 Black	2.86	2.71	2.51
Epson LQ400/500/800/850	3.45	3.30	3.10	Star LC24-10/200 Colour	9.63	9.48	9.28
Epson FX/MX/RX80/FX/LX800	2.90	2.75	2.55	Canon BJ-10 Inkjet Cartridge	Original 17.54	each	
Epson FX/MX/RX100/FX/MX1000	3.36	3.21	3.01	HP Deskjet Cart. (Double Cap)	Original 24.24	each	
Epson LX80/86/90	2.12	1.97	1.77	Canon BJ-10 Refill (Twin Pack)	11.00	10.60	9.95
NEC Pinwriter P2200	3.03	2.88	2.68	HP Deskjet Refill (Twin Pack)	11.00	10.60	9.95
Panasonic KXP1123/1124/1140	3.46	3.31	3.11				
Panasonic KXP1080/1180/90/1592	2.89	2.74	2.54				

Ring for ribbons, inkjet cartridges and inkjet refills not listed

Ring us and we will beat all other prices

0543 250377

Ring us or send cheques to:

0543 250377

Owl Associates, Dept 78, Owl House,  
 5 The Brambles, Lichfield, Staffs WS14 9SE  
 ALL PRICES INCLUDE VAT & DELIVERY

E & OE



## BUS STOP P.D

DEPT CU 6 SMITHS AVENUE, MARSH,  
 HUDDERSFIELD HD3 4AN

TEL: (04384) 516941

RUN BY WOMEN FOR THAT BIT MORE!

### GAMES

Trek Trivia  
 Fruit Machine 2  
 Fighting Warriors  
 Tetren  
 Soccer Cards  
 Strikeball  
 Battlements  
 Holy Grail  
 Gameboy Tetris  
 Dynamite Dick  
 Ethos  
 Ghost Ship  
 Chess  
 Wrex  
 Top of The  
 League  
 Atom Smasher

### MUSIC

Guns n Roses  
 Safe Sex  
 Metal Music  
 Depeche Mode  
 Beatles  
 Voice Samples  
 Led Zeppelin  
 Piano Classics  
 Top Gun

### UTILS

1.3 Emulator  
 Dr Mag  
 Show Std  
 Hackers Ethic  
 Rippers  
 Text Engine V4  
 Freecopy V1.8  
 Join Sounds  
 600 Letters  
 Picture Box  
 Spectrapaint  
 Degradar &  
 CAG  
 Sid V2.0  
 V Morph V2.0  
 Bus Stop Utils 1  
 Maverick Copy

### ANIMS

Iron Maiden  
 Fast Cars  
 K.D. Lang  
 Busy Bee  
 Anti Gameboy  
 Dracula  
 Aircraft

### ONLY

85p

Per  
 Disk  
 P&P

50p Per  
 Order  
 24 HOUR  
 SERVICE

ALL  
 DISKS  
 VIRUS  
 FREE  
 CATA-  
 LOGUE  
 50P &  
 S.A.E.  
 OVER  
 1300  
 TITLES

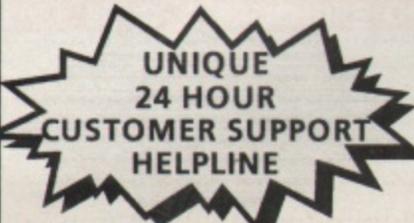
LSD DOCS 1-39  
 AVAILABLE  
 LARGE  
 SELECTION OF  
 EDUCATION AND  
 GLAMOUR  
 LOTS OF FONTS  
 AND CLIP ART  
 CHEQUES  
 PAYABLE TO:  
 BUS STOP  
 P.D.  
 ALL DISKS  
 500+/600/1200  
 COMPATIBLE  
 ALSO CHEAP  
 ACCESSORIES  
 AND SECOND  
 HAND GAMES

## SELECTAFONT



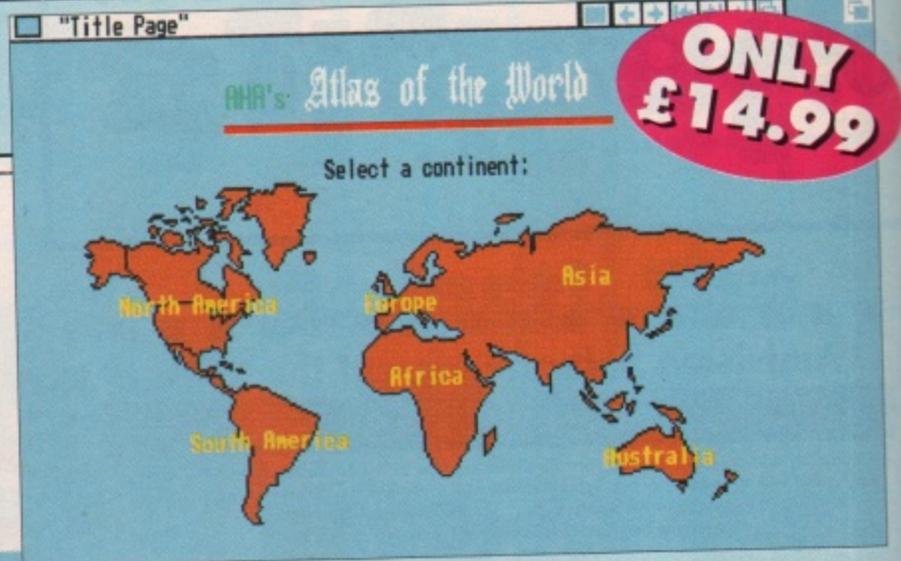
STARBURST POWERLINER AMY NORM  
 CHINESE BIBBIBONS MEDUSA hairpin  
 HEADHUNTER BEEBOUSE MEDUSA

Please send a large SAE with a 36p Stamp for a comprehensive Print-Out of all Fonts. Also state which programs you will be using.



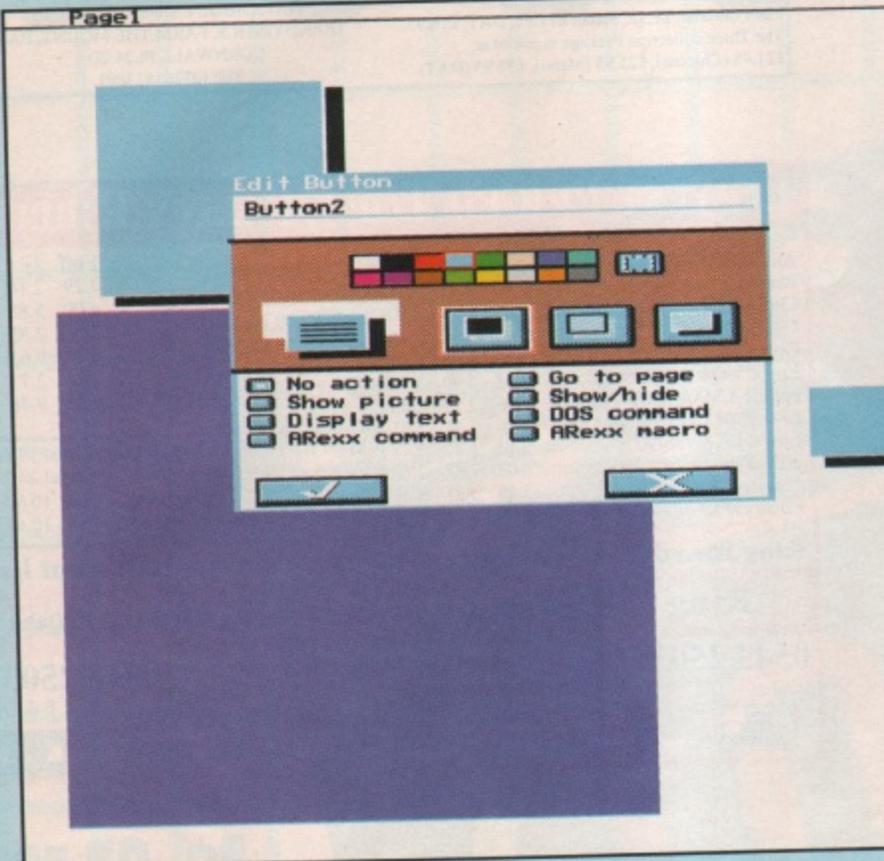
(Dept CU) 84 Thorpe Road, Hawkwell,  
 Nr Hockley, Essex. SS5 4JT Tel: 0702 202835

# HYPERBOOK MANUALS!



SUN	MON	TUES	WED	THURS	FRI	SAT
Delete	Summary	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	Index	

1991 HyperBook Calendar



**H**aving got your hands on the megatastic and popmungous *Hyperbook* software it will not be long before you experience a strange yearning to possess the associated firmware – the *Hyperbook* manuals.

Enter the true spirit of multimedia – see the program and buy the books! The first manual explains in intricate detail every aspect of every menu and tool in the program. It is full of helpful advice and explanations which not only show you what to do, but why you are doing it.

The second half of this manual details the ARexx port and all the commands available from it – invaluable if you plan to do anything adventurous. This software probably has the most comprehensive ARexx

support of any application known to the Amiga, and the only place to find out all the commands available and how to use them is in this book.

And that's not all. The second manual is a guide to creating your own applications. Full of ideas for the office and home, it'll have you creating everything from cookery books to interactive databases.

And all this can be yours for the incredibly toothsome price of just £14.99 (including VAT). Just fill in the coupon below and pop it off to those jolly nice chaps at Silica and they'll do the rest. As if by magic your manuals will be delivered to the comfort of your own home – isn't technology wonderful? And remember, this offer is not available in any record shops.



Fill in and post to: Hyperbook Offer, Silica Systems, 1-4 the Mews, Hatherley Road, Sidcup, Kent DA14 4DX.

Please, please, please let me take advantage of your wonderful Hyperbook Manual offer. I understand that you are great guys and I am in awe of your magnificence. Please find enclosed a cheque/postal order for the amount of £14.99 made payable to Silica Systems. I understand I may have to wait up to 28 of your earth days for delivery.

NAME.....

ADDRESS.....

.....

.....

# CITIZEN PRINTERS

## FROM SILICA SYSTEMS

- **FREE DELIVERY** Next Day - Anywhere in the UK mainland
- **WINDOWS 3.1** Free Windows 3.1 driver with Starter Kit
- **2 YEAR WARRANTY** (including the dot matrix printer head)
- **FREE HELPLINE** Technical support during office hours
- **FREE STARTER KIT** With Citizen dot matrix printers from Silica



**FREE! STARTER KIT WORTH £57.58** (INC. VAT)

**FREE STARTER KIT INCLUDES:**

- 3 1/2" Disk with Amiga Print Manager
- 3 1/2" Disk with Windows 3.1 Driver
- 1.8 Metre Parallel Printer Cable
- 200 Sheets of Continuous Paper
- 100 Continuous Tractor Feed Address Labels
- 5 Continuous Envelopes on Tractor Feed

**AMIGA PRINT MANAGER V2.01**  
For faster printing from your Amiga, with clearer images and more vibrant colours. Available free of charge as part of the Silica Printer Starter Kit.

Features include:

- Improved Image Smoothing
- Image Scaling
- Gamma/Colour Correction
- Colour Separation
- Reduces/eliminates Banding

**KIT VALUE £49** + VAT

## PERIPHERALS & ACCESSORIES

**STAND OFFER**

**PRINTER NOT INCLUDED**

**NEW LOW PRICE!**

**CITIZEN PRINTER STAND**

For Swift 9, 90, 24, 24e, 200, 240 and 224 Printers

- Helps keep pace with Citizen Printer's powerful paper handling
- Robust & Durable Construction
- Saves space and protects continuous stationery from dust and damage
- Compatible with bottom and rear feed

**RRP £28**

**£19**

+VAT=£22.33 - PRA 1242

**SHEET FEEDERS**

PRA 1200 1200+ ..... £71.38  
PRA 1222 1240/224/Swift 80 Col Printers ..... £88.13  
PRA 1225 1240/224/Swift 80 Col Printers ..... £42.00

**SERIAL INTERFACES**

PRA 1189 1200+ ..... £56.45  
PRA 1209 Swift 9/90/124D/224 ..... £32.25  
PRA 1709 Swift 24/24e/24e/200/240 ..... £26.38

**32K MEMORY EXPN**

PRA 1753 224/Swift 24/24e/240 ..... £14.45

**PRINTER STAND**

PRA 1274 Swift 9X/24X/200/240 ..... £34.95

**ORIGINAL RIBBONS**

RIB 3520 1200/Swift 9/90 Black ..... £2.91  
RIB 3949 Swift 9x Black ..... £7.15  
RIB 3924 1240/Swift 24/200/240 Black ..... £4.20  
RIB 3936 224/Swift 9/90/24/200/240 Col ..... £15.63  
RIB 3248 PN48 Single Strike ..... £3.61  
RIB 3348 PN48 Multi Strike ..... £3.61

**COLOUR KITS**

PRA 1236 224/Swift 9/90/24e/200/240 ..... £35.25  
PRA 1240 Swift 9x/24x ..... £45.25

**PN48 ACCESSORIES**

PRA 1148 PN48 Battery ..... £46.70  
PRA 1155 PN48 Cable Extn ..... £29.37  
PRA 1162 PN48 Car Adaptor ..... £18.74

## INKJET 360 CPS 80 COLUMN

- Citizen Project inkjet - 80 column
- 360cps Draft, 120cps NLO
- 50 Nozzle Head - Whisper Quiet 47dB(A)
- 8K Printer Buffer
- RAM Card Options
- 3 Fonts Built-in
- Optional HP Compatible Font Cards
- Parallel and Serial Interface
- Graphics Resolution: 300x300dpi
- HP Deskjet Plus Emulation
- 2 Year Warranty



**RRP £496**

**TOTAL VALUE: £496**

**SAVING: £217**

**SILICA PRICE: £279**

+VAT=£327.83 - PRI 2090

# CITIZEN PRINTERS

## WITH 2 YEAR WARRANTY

### 24 PIN 270 CPS 80 COLUMN



**2 YEAR WARRANTY**

**FREE! STARTER KIT WORTH £49** (SEE LEFT)

**FREE DELIVERY**

**COLOUR KIT OPTIONAL EXTRA**

**Citizen Swift 200 - 24 pin - 80 column**

- 270cps SD (15cps), 216 cps Draft, 72cps LQ
- 8K Printer Buffer (40K max) + 7 LQ Fonts
- Parallel Interface
- Graphics Resolution: 360 x 360 dpi
- Epson, IBM, & NEC P20 Emulations
- Quarter Printing and Auto Set Facility
- Ultra Quiet Mode - 43dB(A)
- Colour Kit - Optional Extra (See Left)
- FREE Silica Printer Starter Kit

**SWIFT 200**

RRP ..... £259  
SILICA STARTER KIT ..... £49  
**TOTAL VALUE: £308**  
SAVING: £129  
**SILICA PRICE: £179**

+VAT=£210.33 - PRI 2490

### 9 PIN 144 CPS 80 COLUMN



**2 YEAR WARRANTY**

**FREE! STARTER KIT WORTH £49** (SEE LEFT)

**FREE DELIVERY**

**Citizen 120D+ - 9 pin - 80 column**

- 144cps Draft, 30cps NLO
- 4K Printer Buffer + 2 Fonts
- Parallel or Serial Interface
- Graphics Resolution: 240 x 216dpi
- Epson and IBM Emulation
- Pull tractor & bottom feed
- FREE Silica Printer Starter Kit

**CITIZEN 120D+**

RRP ..... £199  
SILICA STARTER KIT ..... £49  
**TOTAL VALUE: £248**  
SAVING: £133  
**SILICA PRICE: £115**

+VAT=£135.13 - PRI 2120

The Citizen 120D printer comes supplied with a parallel interface as standard. If you require a serial interface instead, please state ref: PRI 2125 when placing your order with Silica.

### 24 PIN 300 CPS 80 COLUMN



**2 YEAR WARRANTY**

**FREE! STARTER KIT WORTH £49** (SEE ABOVE)

**FREE DELIVERY**

**COLOUR VERSION AVAILABLE**

**Citizen Swift 240/240C - 24 pin - 80 column**

- 300cps SD (15cps), 240 cps Draft, 80cps LQ
- 8K Printer Buffer - 40K maximum
- 9 LQ Fonts + 2 Scalable Fonts (8-40x)
- Font Cartridge Slot - for plug in 'style' fonts
- Parallel Interface
- Graphics Resolution: 360 x 360dpi
- Epson, IBM, NEC P20 & CEL Emulations
- Quarter Printing Facility
- Auto Set Facility - Bi-directional I/F, Auto Emulation Detection
- Ultra Quiet Mode - 43dB(A)
- Colour Printing Standard - Swift 240c, Colour Printing Optional - Swift 240
- FREE Silica Printer Starter Kit

**SWIFT 240 MONO**

RRP ..... £339  
STARTER KIT ..... £49  
**TOTAL VALUE: £388**  
SAVING: £149  
**SILICA PRICE: £239**

+VAT=£290.83 - PRI 2560

**SWIFT 240C COLOUR**

RRP ..... £359  
STARTER KIT ..... £49  
**TOTAL VALUE: £408**  
SAVING: £149  
**SILICA PRICE: £259**

+VAT=£304.33 - PRI 2571

### 9 PIN 240 CPS 80 COLUMN



**2 YEAR WARRANTY**

**FREE! STARTER KIT WORTH £49** (SEE ABOVE)

**FREE DELIVERY**

**COLOUR VERSION AVAILABLE**

**Citizen Swift 90 - 9 pin - 80 column**

- 240cps SD (10cps) 192cps Draft, 48cps NLO
- 8K Printer Buffer
- 6 Fonts Built-in
- Parallel Interface
- Graphics Resolution: 240 x 216dpi
- Epson and IBM Emulation
- Auto Set Facility
- Ultra Quiet Mode - 45dB(A)
- Advanced Paper Handling
- Colour Printing Standard - Swift 90c, Colour Printing Optional - Swift 90
- FREE Silica Printer Starter Kit

**SWIFT 90 MONO**

RRP ..... £199  
STARTER KIT ..... £49  
**TOTAL VALUE: £248**  
SAVING: £99  
**SILICA PRICE: £149**

+VAT=£175.08 - PRI 2290

**SWIFT 90C COLOUR**

RRP ..... £219  
STARTER KIT ..... £49  
**TOTAL VALUE: £268**  
SAVING: £99  
**SILICA PRICE: £169**

+VAT=£198.58 - PRI 2297

### 24 PIN 192 CPS 136 COLUMN



**2 YEAR WARRANTY**

**FREE! STARTER KIT WORTH £49** (SEE ABOVE)

**FREE DELIVERY**

**NEW LOW PRICE!**

**Citizen Swift 24x - 24 pin - 136 col**

- 192cps Draft, 64cps NLO
- 8K Printer Buffer + 4 Fonts
- Parallel Interface
- Graphics Resolution: 360 x 360dpi
- Epson, IBM and NEC P6 Emulation
- Colour Option Available
- FREE Silica Printer Starter Kit

**RRP £489**

**SILICA STARTER KIT £49**

**TOTAL VALUE: £538**

**SAVING: £239**

**SILICA PRICE: £299**

+VAT=£351.33 - PRI 2574

### THERMAL 64 CPS 80 COLUMN



**2 YEAR WARRANTY**

**FREE DELIVERY**

**NEW LOW PRICE!**

**Citizen PN48 Notebook Printer**

- Non-impact Printing on Plain Paper
- 53cps LQ - 4K Buffer + 2 Fonts
- Rear and Bottom Paper Loading
- Parallel Interface
- Graphics Res: 360 x 360dpi
- Epson, IBM, NEC P6 & Citizen Emulation
- Power: Mains, Battery or Car Adaptor

**RRP £325**

**TOTAL VALUE: £325**

**SAVING: £126**

**SILICA PRICE: £199**

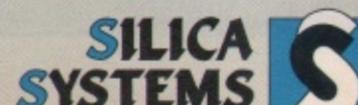
+VAT=£233.83 - PRI 2100

## SILICA SYSTEMS OFFER YOU

- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
  - **TECHNICAL SUPPORT HELPLINE:** Team of technical experts at your service.
  - **PRICE MATCH:** We normally match competitors on a "Same product - Same price" basis.
  - **ESTABLISHED 14 YEARS:** Proven track record in professional computer sales.
  - **£12 MILLION TURNOVER (with 60 staff):** Solid, reliable and profitable.
  - **BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts available 081-308 0888.
  - **SHOWROOMS:** Demonstration and training facilities at all our stores.
  - **THE FULL STOCK RANGE:** All of your requirements from one supplier.
  - **FREE CATALOGUES:** Will be mailed to you with offers + software and peripheral details.
  - **PAYMENT:** Major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).
- Before you decide when to buy your new printer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals and accessories, or help and advice. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

**MAIL ORDER HOTLINE**

**081-309 1111**



**MAIL ORDER:** 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-309 1111  
Order Lines Open: Mon-Sat 9.00am-6.00pm No Late Night Opening Fax No: 081-308 0608

**LONDON SHOP:** 52 Tottenham Court Road, London, W1P 0BA Tel: 071-580 4000  
Opening Hours: Mon-Sat 9.30am-6.00pm No Late Night Opening Fax No: 071-323 4737

**LONDON SHOP:** Selfridges (Basement Area), Oxford Street, London, W1A 1AB Tel: 071-629 1234  
Opening Hours: Mon-Sat 9.30am-7.00pm Late Night: Thursday - 8pm Extension: 3914

**SIDCUP SHOP:** 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-302 8811  
Opening Hours: Mon-Sat 9.00am-5.30pm Late Night: Friday - 7pm Fax No: 081-309 0017

**ESSEX SHOP:** Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA Tel: 0702 468039  
Opening Hours: Mon-Fri 10.00am-5.30pm (Sat 9.00am-6.00pm) Late Night: Thursday - 7pm Fax No: 0702 468039

To: Silica Systems, CMUSR-0993-55, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

### PLEASE SEND A BROCHURE ON THE CITIZEN RANGE

Mr/Ms/Ms: ..... Initials: ..... Surname: ..... Date: .....

Company Name (if applicable): .....

Address: .....

Postcode: .....

Tel (Home): ..... Tel (Work): .....

Which computer(s), if any, do you own? .....

# MEMORY UPGRADE

Want to boost the power of your Amiga? Then look no further, as we've put together a sensational deal with a leading distributor to offer you a series of memory upgrades at unbeatable prices. And, if you're looking to upgrade your mouse, check out our own replacement mouse at a super low price.

## BOOST YOUR MEMORY!

Unleash the hidden power of your machine with a memory upgrade. With more and more applications requiring a minimum of 1Mb of RAM, can you afford NOT to upgrade your machine's memory?

We've negotiated a series of cut-price deals on a range of top quality memory upgrades to ensure you get the best possible value for your money. For A500 owners there's a 512K expansion board to boost your machine up to the magic Megabyte. A500+ owners can get their hands on a 1 1/2Mb upgrade to expand their machine to 1 1/2Mb, or opt for a 1Mb board to give them a 2Mb wonder machine. For the A600, there's a 1Mb RAM upgrade complete with clock, so you'll be able to catalogue your files by date. All the boards are populated and are fitted via the trapdoor, so you won't invalidate your warranty. If that's not enough they even come with a full 12 months' guarantee.

So what's it going to cost? Not as much as you might think! Take a look at these prices...

- A500 upgrade costs only £14.50
- The 1/2Mb A500+ upgrade works out at only £17.99
- The 1Mb A500+ board costs a minuscule £22.99
- A600 upgrade costs just £39.99 or without the clock a mere £24.99

The best thing about the offer is that all these prices INCLUDE POSTAGE AND PACKING! For less than the cost of a full-price game you can transform your Amiga into a super machine. Don't delay, fill in the form opposite NOW!!

**A600  
UPGRADE  
£24.99**

**SAVE  
POUNDS**

**A600  
UPGRADE WITH  
CLOCK  
£39.99**

**IMPORTANT!  
SPECIAL HOTLINE NUMBER  
0480 891171**

If you don't receive your goods within the allotted 28 days, then something's gone terribly wrong. Obviously we value your custom, so we've set up a special HOTLINE number to help sort out any problems or to answer any queries you might have.

Please ring 0480 891171 for all your enquiries. Don't ring the CU Amiga offices as we'll only pass you on to this number and you'll have wasted a phone call.

Sorry but this offer is only open to UK residents. Fulfilment by: Go Direct, 7 Vinegar Hill, Alconbury Weston, Huntingdon, Cambs, PE17 5JA.

## MOUSE OFFER

And while we're in such a generous mood, here's your chance to upgrade your mouse. If your mouse is feeling the strain, isn't it about time you retired it to the local stud farm? This high-quality replacement mouse costs a mere £9.99 and comes with durable microswitches, a 280 dots-per-inch resolution and is switchable between the Amiga and ST. The CU Amiga mouse is much more sensitive than the Commodore one that came with your original machine, so an immediate bonus is its increased accuracy and control. The microswitches also mean it's easier to click and double click than ever before. Even the most robust mouse can turn up its wheels and stop working, so here's the ideal low-cost replacement. Send for yours today!

# UPGRADE OFFERS!



**A500+  
UPGRADE  
£22.99**



**A500  
UPGRADE  
£14.50**



**ORDER BY  
TELEPHONE**

VISA AND MASTERCARD  
TELEPHONE ORDERS

**0480 891171**

**ORDER BY  
POST**

**PAYING BY  
CHEQUE AND  
POSTAL ORDERS**

If you pay by cheque or Postal Order, make all orders payable to GO DIRECT and mark cheques with your cheque guarantee number on the reverse.

All prices quoted are inclusive of VAT and include free after-sales technical helpline on all memory upgrades.

Please allow up to 28 days for delivery. Send your completed forms to: CU AMIGA READER OFFERS, GO DIRECT, 7 VINEGAR HILL, ALCONBURY WESTON, HUNTINGDON, PE17 5JA.

**NEW  
MOUSE  
£9.99**



- A500 1Mb upgrade.....£14.50
- A500+ 1/2Mb upgrade..... £17.99
- A500+ 1Mb upgrade..... £22.99
- A600 1Mb upgrade with clock.....£39.99
- A600 1Mb upgrade.....£24.99
- New Mouse.....£9.99

Total.....£

Method of payment:

- Cheque
- Postal Order
- Visa/Mastercard

Name .....

Address .....

Postcode.....

Telephone (day).....

Visa/Mastercard.....

Expiry Date.....

Signature.....

6



**GROUND ZERO**  
4 CHANDOS RD  
REDLAND  
BRISTOL BS6 6PE  
ENGLAND

**NEW STUFF**

G247 FLEUCH - Remake of the Classic Commodore 64 game, Thrust.  
G248 FURMYRE - Traditional style scrolling shoot-em-up.  
A140 CAR MORPH - Clever animation showing off the morphing technique.  
M134 RHAPSODY IN BLUE - Renowned Jazz music recreation.  
M135/136 NUTCRACKER SUITE (2 DISKS) - Synthesised musical arrangements.  
T028 DREAMS FOR AN ANGEL - Decipher the meaning of your dreams.  
D153 RETINA - Energetic rave track with flashy visuals. A1200 ONLY.  
U273 ACCOUNT MASTER - Comprehensive personal finance manager. The best.  
U270 VMORPH - Create your own morphing sequences. Superb!  
U271 POLYED - Polygon animation package.  
U269 DART MACHINE - Computerised dart scorer.  
U277 AMOS PRO UPDATER v1.1 - For Amos Professional owners.  
U272 TEXT ENGINE v4.0 - This unmatched Word Processor now comes with a 36,000 word spell checker.  
G241 IMPERIAL WALKER - 3D perspective shoot-em-up.  
G240 BILLY THE DRAGON - Cutesy blaster for youngsters.



**G246 - WIBBLE WORLD GIDDY.**

The best PD game ever. A mix of puzzle and platform, in the same genre of the hit budget Dizzy series. Don't miss this near commercial quality game. Wow.

**U272 - TEXT ENGINE v4.0.**

Powerful word processor with the unique feature of an fully intergrated 36,000 word spell checker. Not to be missed.



**PRICE LIST**

PRICE PER DISK.....£0.89

CATALOGUE DISK.....£0.50

POSTAGE & PACKING.....£0.75

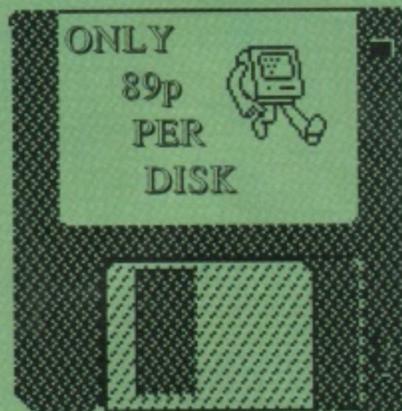
OUTSIDE UK..ADD 25%  
OF GRAND TOTAL TO COVER  
EXTRA POSTAGE COSTS.

CHECK OUT OUR CATALOGUE DISK.  
WIDELY REGARDED AS THE BEST  
CATALOGUE IN THIS COUNTRY.



**CLASSIC GAMES**

G200 FIGHTING WARRIORS - PD equivalent of Street Fighter.  
G205 TOP OF THE LEAGUE - Brill Footy management game.  
G222 GNU CHESS - The best PD Chess game available. NOT A500  
G232 MONACO - Clone of the original arcade race game.  
G245 ALL ROUNDER - Cricket Simulation.  
G169 DONKEY KONG - Faithful to the original platformer. NOT A1200.  
G037 SEALANCE - Brilliant Submarine wargame.  
G244 OBLIVION - Blistering version of Defender.  
G221 BOW & ARROW - Archery game.  
G229 GIGER TETRIS - New Tetris game for A1200's only.  
G233 PACMAN DELUXE - Incredible Pacman clone.  
G214 DR MARIO - Conversion from the SNES console.  
G199 FRAC - Create your own text Adventures!  
G193 HELLZONE - The ultimate PD shoot-em-up. Too good to miss.  
G177 CRAZY SUE II - The highly rated professional platform game.  
G150 LEGEND OF LOTHIAN - Fabulous Ultima style RPG.  
G078 3D Battle cars blaster to the death.  
G030 MEGABALL - The closest thing to Arkanoid. One of the all time greats of the Public Domain World. Miss out at your peril.  
G236 RAGS TO RICHES - Rewarding Monopoly based board game. Requires at least 1.5 megabytes of memory.  
G237 GAMMON - Polished Backgammon game.  
G128 TOTAL WAR - Faithful RISK clone.  
G121 BIPLANES - Take to the skies and dog fight.  
G114 GROUND ZERO GAMES 14 - Dictator, Bugblaster, Lamer Exterminator, Mambomove, Sokosky, Reversi, Mine Clearer.  
G107 WASTELAND - The closest thing to a VR game.  
G093 GROUND ZERO GAMES 12 - Parachute Joust, Jumpy, Zut Alors.  
G091 GROUND ZERO GAMES 11 - Destination Moonbase, Pacman, Wanderer 22.  
G089 HOLLYWOOD TRIVIA - Do you know your stuff!  
G088 21 GAMES - A massive bargain of 21 games crammed on a single diskette.



**TOP DEMOS**

D148 STATE OF THE ART - The hottest demo of the year. Unbelievable graphics. Get this now....  
D147 SONIC THE HEDGEHOG - Could this be for real???  
M127/M128 JESUS ON E'S (2 DISKS) - Possibly the best music demo ever. 27 minutes long (REQUIRES 2 DRIVES).  
M130/M131/M132/M133 THE A-Z OF C64 TUNES - A huge collection of old classic C64 game tunes.  
M134 RHAPSODY IN BLUE - Jazz.  
M135/M136 NUTCRACKER SUITE - Classical music.  
M123 KAOS THEORY - Five hardcore tracks.  
M119 TECHN WARRIORS - Rave for 24 minutes.  
D046 ENIGMA - The demo that set the standard.  
D149 PLANET GROVE - An A1200 only demo. Making use of it's superior AGA chipset.  
D145 PIECE OF MIND - Excellent use of vectors, in this Star Trek spoof.  
A127 DOLPHIN DREAMS - Beautiful animations.  
M084 GATES OF PAGAN - Inspired music disk. V.good.  
A093 5 WAYS TO KILL A MOLE - Ten really.

SEE OUR CATALOGUE FOR LOADS MORE DEMOS

**U273 - ACCOUNT MASTER**

Professional personal finance manager. Very comprehensive, with features that match the full price commercial



**U278 - SKICK**

Downgrade your A500+, A600 or A1200 to Kickstart 1.3, to aid in incompatibility problems with A500 software. Also another program allows you to upgrade your A500+ or A600 to Kickstart 3.0, as used by the A1200. This allows you to use the sophisticated functions of Workbench 3.0. Can you be without this disk!!!!



**TOP UTILITIES**

U215 FREECOPY v1.8 - Removes protection from 60+ commercial games.  
U003 M-CAD - Computer Aided Design program.  
U009 C-LIGHT - A former commercial Ray-Tracing package. released as public domain software.  
U062 SCENE GENERATOR - Generates random life-like scenes, with mountains, water, clouds, ice etc. Incredible results.  
U102 AMIGAFOX - Desktop Publishing package.  
U137 ELECRO CAD - Circuit board designer.  
U142 FREE PAINT - Art package similar to Deluxe Paint.  
U154 AUDIO ANIMATION - Animation studio, plus you can add sound effects in sync with the visuals.  
U190 GRAPHICS GALLERY - Learn how to produce stunning logos as seen in the top demos.  
U267 SPECTRUM EMULATOR v1.4 - The latest verion of the Spectrum emulator.  
U206 RACE RATER - Horse racing predictor.  
U158 NOERRORS - Hides the hard errors on disks, making useless disks into working ones.  
U151 P-SUITE - Disk magazine creator, add graphics, sound and even animation sequences.  
U150 A500+ EMULATOR - Upgrades your ancient Kickstart 1.3 Amiga into a A500 PLUS. For running Workbench 2.0 on the A500.  
U146 AMIGA SYSTEM DISK - A batch of computer diagnostics programs. Make sure your Amiga is in a healthy state.  
U186 MED 3.21 - The most popular music sequencer available. We can also provide you with loads of instrument disks - See catalogue.  
U178 COMPOSER - Traditional music making with staves and notes.

**EDUCATION**

E044 THE MATHS ADVENTURE - Maths intergrated into a game.  
E042 GAS TURBINE ENGINE - Animated cross section.  
E037 FOUR STROKE ENGINE - More of the same.  
E036 STEAM ENGINE - More animated engines.  
E043 WW2 HISTORY BOOK - Loads of text and picture data of the history of the second world war.  
G041 FRACTIONS - Test and teaching.  
E038 AMIGAIZER - Astronomy program.  
E026 A VISIT TO THE RED PLANET - A guided tour of Mars.  
E024 TOTAL CONCEPTS DINOSAURS - All you wanted to know about dinosaurs.  
E023 TOTAL CONCEPTS ASTRONOMY - All you wanted to know about space.  
E022 SPANISH/FRENCH/GERMAN/ITALIAN TUTORS - Four language tutors.  
E018 BIORHYTHMS CALCULATOR - Display your personal biorhythms graphs.  
E012 EVO - Follow the evolution of man from 20 million years ago.  
E003 GRAVITY SIMULATOR - Does just that.  
E040 FAMILY HISTORY DATABASE - Famil tree plotter.  
E033 ELEMENTS - Computerised periodic table.

Check out our catalogue disk for thousands more programs, from the most detailed reference guide on all the best public domain software available. Whats more we are one of the cheapest libraries around, Don't pay £3.00 or even £1.25 when you can have the same software for just 89p.



ALL DISKS ARE  
COMPATIBLE  
WITH ALL AMIGA'S  
UNLESS STATED  
OTHERWISE.

# AMIGA

## Workshop

ISSUE 8

AUGUST 1993

CLUB CALL

BOOK SHELF

VIDEO VAULT



**Amiga Workshop is here to help you get the most from your Amiga. It's packed to the spine with tutorials, step-by-step guides, questions and, more importantly, answers. For the absolute best in Amiga info, look no further than these very pages.**

### 149 BOOKSHELF

After his amazing brush with death, Mat Broomfield (aka Super Librarian) stamps his ticket and returns to review a shelf full of Amiga titles.

### 151 VIDEO VAULT

Not content with having an encyclopaedic knowledge of the music scene, Tony Horgan fancies himself as a bit of a Barry Norman too. Prop open your square eyes and settle down in front of the telly.

### 154 D-PAINT GUIDE (PART SEVEN)

For the past six months Peter Lee's been guiding you round the front-end of *D-Paint*. So, this month he's decided to take a peek behind the scenes to find out what holds it together.

### 156 WORKBENCH (PART SIX)

After a childhood accident with a nuclear-powered Guinness vat, lowly Nick Veitch was endowed with amazing powers of techno-speak. He's finally decided to translate it all just for you. This month he writes a script about CLI.

### 158 VIDEO TITLING (PART TWO)

Brandishing his mighty Video Camera of Doom, Jim Strutton strides forth into a world filled with desperate would-be titlers. Let him help you to bring light and a polished front end to your masterpiece.

### 162 AMOS (PART FIVE)

A long time ago, in an issue far, far away, Dave Smithson started on his

quest to create the perfect *PacMan* game. This issue he learns the Way of the Collision Routine.

### 164 QUESTIONS AND ANSWERS

Lost in a sea of problems? Adrift on the highway of life? Let Mat 'Guru' Broomfield introduce you to the cult of correction and put you back in the driving seat of your Amiga. Oh, and while he's at it he might answer a few questions too.

### 170 GETTING STARTED WITH HYPERBOOK

Do you have dreams of designing your own database but can't even load the program? Well, here it is at last. CU AMIGA's very own guide to *Hyperbook*, given away free on disk 58 (and promised for months).

### 172 DO IT YOURSELF

Meaner than a rattlesnake and twice as sneaky, John Kennedy grabs his soldering iron to do battle with the forces of commercialism. This month watch as he makes a MIDI sampler appear before your very eyes.

### 174 BACKCHAT

Back for another tour of duty, John Mather buckles up his hard hat and awaits another round of incoming enemy fire. Yep, it's readers' letters time again.

### 178 POINTS OF VIEW

Now's your chance to stare in amusement as another Amiga celeb froths at the mouth in a vain attempt to present a coherent argument. In the hotseat this issue – Andy Leaning – as he rings the changes about modems.

# WE ARE OPEN ALL HOURS

9am-10pm Mon-Sat  
10am-6pm Sun

## HARDWARE

A600 + Joystick + mouse mat.....	£259.00
A500 Plus & Software.....	£229.00
A1200.....	£389.00
1084S Monitor.....	£195.00
GVP series 2, Hard drive 40 Meg.....	£299.00
GVP series 2, Hard drive 80 Meg.....	£369.00

Phone for 2000 & 300 prices.

## JOYSTICKS

Quickshot II.....	£6.50
Python Micro Switched.....	£8.00
Speedking Autofire.....	£10.50
Competition Pro 5000 Black.....	£11.90
Maverick Autofire.....	£12.95
Zipstick Autofire.....	£12.95
Intruder.....	£21.50
Aviator Flight Sim.....	£23.50
Jet Fighter.....	£12.99

## LOOK! LOOK! LOOK!

**TRACTOR FEED DISK LABELS**  
500 plain white labels & software to print your own professional labels  
**Only £9.95**  
**SPECIAL OFFER**  
1000 labels with software **£13.50**

## ACCESSORIES

Amiga Int drive.....	£49.00
A500 Power Supply.....	£29.95
A500 Modulator.....	£19.95
Zydec Ext drive.....	£51.00
512K upgrade with clock.....	£23.50
512K upgrade no clock.....	£19.00
1.5 Meg upgrade with clock.....	£79.00
1 Meg Amiga plus upgrade.....	£37.00
1 Meg Amiga 600 upgrade.....	£44.00
8 Meg fast ram, 4 Meg populated.....	£169.00

## DISKS with labels

<b>Unbranded Bulk 100% Certified</b>	
3.5" DSDD.....	37p each
3.5" Rainbow.....	44p each
3.5" DSHD.....	58p each
5.25" DSDD.....	28p each
<b>Branded Disks</b>	
3.5" DSDD.....	49p each
3.5" Labels per roll of 1,000.....	£6.50
3.5" Tractor feed per 1,000.....	£8.50

Please phone for bulk purchase discounts

## MISCELLANEOUS

Mousehouse.....	£1.60
Mouse Mat.....	£2.50
Disk Drive Cleaner.....	£1.80
Amiga Dust Cover.....	£3.50
Monitor Dust Cover.....	£3.50
Mouse/Joystick Auto Shift.....	£13.95
Amiga Light Pen & Software.....	£32.00
Optical Mouse.....	£32.00
Mega mouse.....	£12.99
Primax mouse.....	£12.99
Zy-Fi Amplifier & Speakers.....	£37.95
Thumb & Finger Trackball.....	£19.99
Crystal Trackball.....	£32.00
Action Replay Mark III.....	£57.00
Techno Sound Turbo Sampler.....	£32.00
2 Piece Printer Stand.....	£3.99
Midi Master.....	£26.00
Wordworth 1.1.....	£77.50
Tilt/Turn Monitor Stand.....	£9.95

## PRINTERS

Star LC-20.....	£133.00
Star LC 24-20.....	£195.00
Star LC 100 Colour *new.....	£169.00
Star LC200 Colour.....	£189.00
Star LC 24-200 Colour.....	£274.00

## STORAGE BOXES

10 capacity.....	£0.95
NEW 200 Cap box stackable/lockable.....	£19.99
50 capacity lockable.....	£3.95
100 capacity lockable.....	£4.50
80 cap Banx stackable/lockable.....	£8.50
150 cap Posso stackable.....	£15.00

Most of the above available in 3.5" and 5.25"

Orders by phone or post to:  
**DIRECT COMPUTERS SUPPLIES**

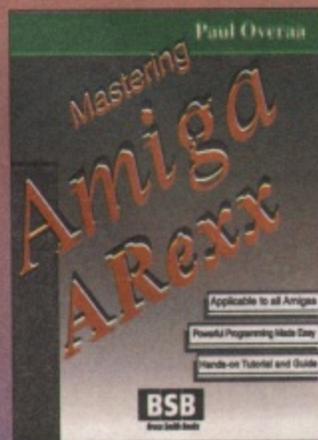
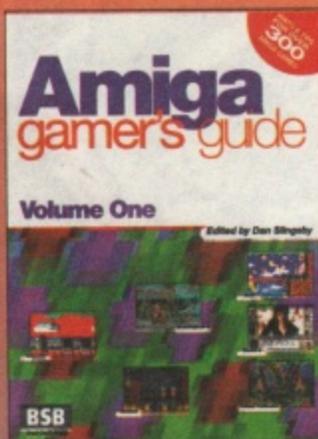
0782 - 206808 Anytime  
0782 - 642497 9am - 5.30  
0630 - 653193 Eves / Weekend

36 Hoop St.  
Hanley,  
Stoke-on-Trent  
ST1 5BS

Prices include VAT  
Postage please add £3.30  
We accept cheques/  
P.O.'s/Visa/Access

# GET SERIOUS

Get cracking with these great new titles from Bruce Smith Books



Written by *CU Amiga* editor Dan Slingsby, the highly illustrated *Amiga Gamer's Guide* contains a wealth of background information for your favourite Amiga games such as Streetfighter 2, Sensible Soccer and Zool. You'll find full solutions, picture by picture walkthroughs, tactics, strategy and cheats. From sports sims to arcade adventures, *Amiga Gamer's Guide* gives you all the hints and tips, hidden screens and puzzle solutions you could ever need. Topped off with the most complete A to Z of tips and tricks to over 300 of the greatest games, it's sure to become your essential guide to winning on your Amiga.

**Amiga Gamer's Guide**  
Dan Slingsby, 368 pages, £14.95,  
ISBN: 1-873308-16-7

The ARexx programming language is assured a bright future as part of Workbench, with official endorsement from Commodore itself. No harder to learn than BASIC, the examples and listings supplied will teach you ARexx from scratch. A complete understanding of the application control advantages of this powerful language can be yours. Find out how to install ARexx on any Amiga. Work through the tutorials, on both beginners and advanced programming topics. Also applicable to Workbench 1.2 and 1.3 users (we tell you how to get ARexx). Free disk of example scripts when ordered from BSB.

**Mastering Amiga ARexx**  
Paul Overaa, 336 pages, £21.95,  
ISBN: 1-873308-13-2



Stop Press . Stop Press . Stop Press . Stop Press .  
First edition of A1200 sold out in six weeks. Second revised edition now available, while stocks last.  
Stop Press . Stop Press . Stop Press . Stop Press .

### The Amiga Best Sellers!

These are the perfect books for the A600 and A1200 beginner, explaining how to set up your computer, copy files, configure for your printer and run programs. Step-by-step practical guides to the Workbench, Preferences, utilities and AmigaDOS. Learn the secrets of the Shell, combat viruses and get the most from Commodities. By following the 55 Insider Guide illustrations you will quickly learn how to control the Amiga by straightforward example.

Discover how to get the best out of programs like MEMacs, MultiView, CrossDOS and ED. There are in-depth explanations of all new features on the A1200, such as the colour wheel, Intellifonts, configuring sound, and much more besides. Your Amiga comes with a wealth of software. Learn how to use it to its full potential with these easy to understand guides. They're sure to sell out soon, so order your copy - today!

**Amiga A600 Insider Guide**  
Bruce Smith, 256 pages, £14.95,  
ISBN: 1-873308-14-0

**Amiga A1200 Insider Guide**  
Bruce Smith, 256 pages, £14.95,  
ISBN: 1-873308-15-8

**CREDIT CARD HOTLINE**  
**(0923) 894355**  
(24-Hr Ansaphone) - 24-Hour dispatch

Also available in all good bookshop

- How to order -

Please send either a cheque/PO made payable to 'Bruce Smith Books Ltd' to the address left. Alternatively call our Credit Card Hotline quoting your name and address, credit card number, it's expiry date and your daytime telephone number. First class postage free in the UK. Postage £3 per book (Europe), £6 per book elsewhere.

Please send to: Bruce Smith Books Ltd (CUJ), FREEPOST 242, PO Box 382, St. Albans, Herts, AL2 3BR.

I enclose a cheque/PO for £..... Alternatively charge my Visa/Access/Mastercard: £.....

Number:  Expiry Date:

Name:

Address:

Postcode:

Please rush me the following books:



# BOOK SHELF

This month Mat Broomfield takes a look at two books that cover two very different aspects of programming.

## MASTERING AMIGA AREXX

BSB

Having already written books on C and Assembly language programming as well as a generic Amiga systems book, it comes as no surprise to learn that Paul Overaa has finally got around to doing one on AREXX.

*Mastering Amiga AREXX* begins with an obligatory chapter on the origins of the language in which Paul traces its evolution from the IBM right through standalone packages for the A1000 to become one of the few third party products that's not only endorsed by Commodore, but eventually included in their machine's software.

As Paul moves on to describe the advantages of the language over other alternatives and the way it interacts with the Amiga's system architecture, he gets a bit bogged down in tech speak and long words which could very easily intimidate a programming novice.

After describing the basic elements needed for an AREXX program to run properly, Paul quickly dives into programming examples. It's nice to see that he starts with one almost immediately rather than beginning with loads of theoretical stuff that could overwhelm a novice.

At this point it's worth mentioning the fact that the book is accompanied by a free disk of material to accompany the text. This is particularly useful because it avoids the dangers of syntactic and grammatical mistakes whilst you learn. It's also handy because AREXX does not use a dedicated compiler so all programs have to be typed into a text editor before being passed to the AREXX interpreter. The free disk means that you can immediately jump right in without having to learn how to use text editors as well.

The next few chapters deal almost exclusively with the rules and tools of the language without too much specific reference to any particular programs. These chapters are the ones where you will learn the cans and can'ts of the language, and although not particularly exciting, they lay the groundwork for the more interesting material that is to follow.

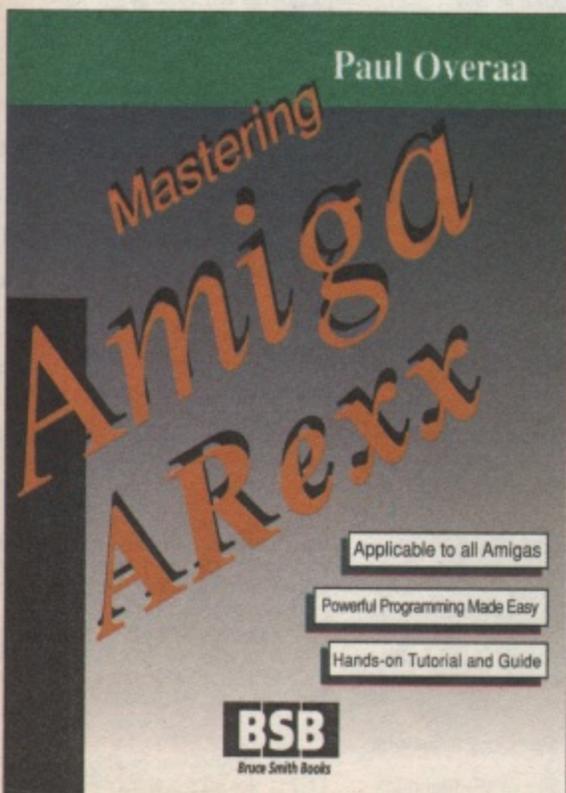
There is a very useful section on debugging, complete with tips and advice. As programming can often be 30 per cent original coding and 70 per cent

debugging, it's nice to see this important subject given the prominence it deserves.

Paul also allocates two entire chapters to inter-program communication, demonstrating how the language can be used to pass information back and forth between unrelated programs. I believe that this will become increasingly important in the future, and it's good to see it being treated thoroughly.

Overall, a hefty and generally readable tome giving you all the information you need to learn AREXX.

ISBN 1-873308-13-2, 332 pages, £21.95, Published by Bruce Smith Books Limited, PO Box 382, St Albans, Herts, AL2 3JD. Tel: 0923 894355.



# The Commercial Games Programmer's Guide

2nd edition

David Gibbon

## THE COMMERCIAL GAMES PROGRAMMER'S GUIDE 2ND EDITION

KUMA

If you've ever considered entering the games industry as a programmer, designer or artist, this is the book for you. To my knowledge, it's the only title which attempts to give advice to help you enter the industry. Written by Dave Gibbon who is a games programmer himself, the book attempts to give advice on a number of subjects, from choosing a programming language to setting up your own publishing house.

In some ways the information given is quite incongruous. For example, the book starts by saying that it doesn't aim to teach you to program, then there's a large section on learning to program professionally. There's not enough space for a thorough examination of the subject so Dave simply covers the merest basics. And another thing; if, as the title professes, the book is designed to help you to become a 'Commercial Games Programmer', why is so much space dedicated to the Spectrum, Amstrad and C64? I would have thought that it would be commercial suicide to dedicate months or even years learning to program computers which are long dead.

Anyway, that aside, the book does have much merit as a tool for inspiring the creative juices, as well as giving hopefuls a direction to move in.

There's a good chapter on how to get ideas, which comes complete with tips on creating and animating characters, and creating believable movements for computer controlled adversaries.

There's also a section on how to present your games or ideas to software houses. This tells you what these companies look for in a game, and how to analyse the market for popularity trends. If all else fails, there's even a chapter on marketing and publishing software yourself.

The book is concluded with a list of programming packages and accessories for all computers and a software company contact list. At only £9.95 *The Commercial Games Programmer's Guide* represents fair value for anyone interested in this line of work.

ISBN 0-7457-0155-8, 131 Pages, £9.95, Published by Kuma Books Ltd, 12 Horseshoe Park, Pangbourne, Berkshire, RG8 7JW, Tel: 0734 844335.

# ORION

89p

# PD

FREE DISKS  
ORDER  
5-10 get 1 free  
11+ get 2 free

Dept CU9  
14 Ouston Close  
Wardley  
Gateshead  
Tyne & Wear  
NE10 8DZ  
Tel: 091-4385021

### UTILITIES

U004 D-COPY V2.0 + excellent copier  
 U005 MESSY SID II + PC-Amiga transfer  
 U006 AMIGA FOX DTP + make leaflets  
 U011 OPTI UTILITIES II + lots of utilities  
 U013 TEXTPLUS V3.0e + the best w/p  
 U015 DISK SALVAGE + recovers files  
 U016 RED DEVILS UTILITIES + great  
 U019 NEWSUPER KILLERS + get it  
 U020 PRINTER UTILITIES + essential  
 U027 WORLD DATA BANK V2.2 + maps  
 U028 A64 EMULATOR V2.0 + great  
 U030 LABEL MAKER V1.5+ colour labels  
 U034/38 PAGESSETTER Clip Art (5) +  
 U040 AMBASE PRO II + great database  
 U042 TYPING TUTOR + improves typing  
 U044 PD-COPY II another good copier  
 U044 CASSETTE LABELLER + good  
 U071 ICONS I + hundreds of icons  
 U073 GELKINITE FONTS 3 + get it  
 U074 MULTI PLAYER + music player  
 U079 ICON EDITOR + essential editor  
 U083 CARTOON BRUSHES + great  
 U086 FREE COPY V1.8 + great copier  
 U088 ZX SPECTRUM EMULATOR +  
 U089 TEXT ENGINE 4.0 + New version  
 U092 POOLS TOOLS 2 + pools help  
 U093 BICS V1.10 + boot into creator  
 U099 BUSINESS CARD DESIGNER +  
 U100 AMIGA TUTORIAL + essential  
 U103 ANIMATION STUDIO + good  
 U106 FINDEX + simple database  
 U108 FILEOFAX + the best organizer  
 U116 EMULATORS COMPILATION  
 U117 600 BUSINESS LETTERS +  
 U120 MAGNETIC PAGES V1.3 +  
 U122 TALKING COLOURING BOOK +  
 U128 A-GENE V4.18 + geneology prog  
 U138 FORMS REALLY UNLIMITED +  
 U139 PC TASK 2.01+great PC emulator  
 U157 ZOOM V5.4 + disk archiver  
 U159 DISK PRINT V3.59 + label printer  
 U167 PRINTER DRIVERS canon & star  
 U188 TYPOGRAPHER + font editor  
 U173 CROSS MAZE V1.0a + cross word  
 U176 BBASE III V1.1 + database program  
 U180 IQ TESTER + test your own IQ  
 U221 PRO DEMO MAKER

U229 DISK MATE V2.1 + disk copier  
 U238 LANDSCAPE GARDENING  
 U253 MENU MASTER + menu maker  
 U254 CHECKBOOK + home finances  
 U255 BLUE ROSE FONTS + great fonts  
 U256 VIDEO MANAGER +tape organizer  
 U260/264 WB2 UTILITIES (5) essential  
 U272 ZKICK 3.01 A500+ emulator, get it  
 U282 NIB 2.0 a powerful copier  
 U283 LITTLE OFFICE integrated pack  
 U296 BFORMAT 4.0 +formats bad disks  
 U302 PLOTMAP 0.85 WB2 world map  
 U314 PC-AMIGA + transfer files +more  
 U337 KICK 1.3 WB2/3 A500 emulator  
 U338 BLUE ROSE FONTS 2 +  
 U340 SOUND TRACKER 2.5 +  
 U341 ICONS 2 + lots of coloured icons  
 U362 EASY SPELL+educational program  
 U371 LYAPUNOVIA + creates pictures  
 U372 VIRUS Z +detects over 600 viruses  
 U380 VMORPH +create morphs / warps  
 U384 PROTRACKER 3.0 + music editor  
 U386 OCTAMED V2 + full version  
 U386/388 TERM 3.1 + New version  
 U400 CLIP ART 4 + World War II aircraft  
 U403 CLIP ART 28 + butterflies  
 U404 CLIP ART 31 + borders  
 U405 CLIP ART 32 + Mac clip art  
 U410/420 AMATEUR RADIO PACK (10)  
 U422 LAST WILL & TESTAMENT +  
 U423 ICONS III +lots of coloured icons  
 U424 CINE MORPH DEMO V1.0 +  
 U435 A1200 DOWN GRADER V83  
 U445/448 VIDEO GRAPHICS (4) +  
 U450 QA TEST + MOT test your amiga  
 U452/458 LSD LEGAL TOOLS PACK(7)  
 U460/462 KING JAMES BIBLE + (3)  
 U463/464 WB 3.0 UTILITIES (3)  
 U465/467 POST 1.85enh (3) +  
 ANIMATION  
 AGATRON ANIMATION PACK 1 6 disks  
 AGATRON ANIMATION PACK 2 6 disks  
 ERIC SCHWARTZ ANIM PACK 1 6 disks  
 A053 KINGFISHER 1 +  
 A054 GHOST POOL ANIMATION +  
 A056/56 THE CIRCUS ACT (2)

A058 KICK BOXER  
 A086 STEAM ENGINE ANIM +  
 A088 GAS TURBINE ANIM +  
 DEMOS  
 D024/28 ODYSSEY (5) +  
 D039/44 THE WALL pink floyd (6)  
 D045/46 JESUS ON E's (2) +  
 D047 CAT COMPUTER CLUB +  
 D049 STATE OF THE ART +  
 D050 IN THE KITCHEN +  
 D051 CHAMELEON DEMO +  
 D055 LSD DEMO COMPILATION 29 +  
 D056 LSD DEMO COMPILATION 35 +  
 GAMES  
 G027 FRUIT MACHINE 1 +  
 G039/40 C84 GAMES (2) needs U028  
 G054 2-PLAYER SOCCER LEAGUE +  
 G056 FORMULA 1 CHALLENGE V3 +  
 G082 MONOPOLY +  
 G083/84 STAR TREK (2) +  
 G098 SUPER PACMAN 92 +  
 G102 DUEL +  
 G110 FRUIT MACHINE 2 +  
 G113 TOP OF THE LEAGUE +  
 G114 Dr. MARIO +  
 G115 SOCCER CARD +  
 G119 BATTLE CARS 2 +  
 G120 GROWTH +  
 G129 TETREN +  
 G130 NU +  
 G187 TOTAL WAR +  
 G188 NO MANS LAND 2 player +  
 G192 NEW CARD GAMES +  
 G194 FRUIT MACHINE 3 +  
 ASSASSINS GAMES 1-83  
 The best collection of PD games  
 Any 10 £10.00 Any 20 £18.00  
 Any 30 £28.00 Any 40 £34.00  
 Any 50 £42.00 Disks 1-83 £70.00  
 ASI Games are also available individually  
 FRED FISH 1-880  
 Fish Catalogue £1.25  
 CATALOGUE DISK 95p  
 OVER 3000 TITLES IN STOCK!

### PRICES

1-5 DISKS .....£1.25  
 6-19 DISKS .....99p  
 20+ DISKS .....89p

### POSTAGE

UK ORDERS .....75p  
 EUROPE .....£2.00  
 WORLD .....£4.00

### SPECIAL PACKS

BUSINESS PACK 1 + Contains 5 disks £4.95  
 BUSINESS PACK 2 + A further 5 disks £4.95  
 UTILITIES PACK 1+ Contains 5 disks £4.95  
 FONTS PACK 1 + Contains 3 disks £2.95  
 CLIP ART PACK 1 + Contains 5 disks £4.95  
 CLIP ART PACK 2 + Contains 5 disks £4.95  
 GAMES PACK 1 + 5 disks - 30 games £4.95  
 GAMES PACK 2 + 5 disks - 30 games £4.95

### HOW TO ORDER

Please make cheques with bankers card number or postal orders payable to "ORION PD"  
 All orders despatched 1st class same day.  
 + = A500+/A600 compatible ( ) = Number of disks  
 WB2 = This program is only WB2.04 compatible

# HAM GRAPHICS

DEPT HC, 41 Park Lane, Netherton, LIVERPOOL L30 1QA  
AMIGA PUBLIC DOMAIN

TEL/FAX: (051) 524 2112

### Games

3000 Klaktris +  
 3001 Cashfruit +  
 3003 Computer Conflict +  
 3005 Paranoid (breakout)  
 3006 Air Warrior (sim) +  
 3007 Battle Cars +  
 3008 Assassins Games 1 +  
 3010 Super Pac-Man  
 3015 Roulette +  
 3016 Mayhem +  
 3017 Donkey Kong +  
 3019 Starfleet +  
 3023 Cubulus +  
 3025 Crosefire + 1mB  
 3028 Llamatron +  
 3032 Rings Of Zon  
 3038 Hired Guns Demo  
 Brilliant All 1mB amigas  
 3038 Hellzone Demo +  
 3046 Star Trek - The Game (2D) by T. Richter +

### Demos

2001 Mr. Fabulous demo  
 2004 The Wall - Kefrens  
 2005 RAF Megademo  
 2006 HardCrack demo  
 2007 Warriors Compact 1  
 2009 Phenomena demo  
 2017x Pink Floyd demo - 6 disk set. Req's 2 drives and fast ram. Fantastic  
 2028 Odyssey-brilliant demo lasts 40mins 5 disk set  
 2030x Jesus on E's One of the best rave demos avail.  
 2032 State of the Art. maybe the best demo of 1993+  
 2033 Lethal Exit demo+  
 2035 Mayday Resistance  
 2036 Mind Riot -Andromeda+

### Packs

Printer Pack £8.99  
 5 disks full of very useful printing utilities, disk labels, cass. labels, print formatting, IFF printing and lots more.  
 Font Pack £3.99  
 3 disks packed with Amiga bitmap fonts. Use in DPaint etc.  
 Graphics Pack £3.99  
 3 disks full of graphics utility programs, convert images from 4096 to 32 colour, display 24 bit. Font utility etc. A must for all graphics users.  
 Disk Pack £3.99  
 3 disks - 21 programs. Disk copiers, disk repair, backup, speed check & loads more.  
 Samples Pack £5.49  
 4 disks absolutely full of sound samples. Instruments etc. Lots of 8SVX samples..  
 Chaos Pack £9.99  
 7 disks - 5 Mandelbrot progs, plus Lyapunov. Everything for the Fractal freak.  
 Games Pack Special £5.99  
 ANY 5 game disks OR any 5 Assassins. Full details in catalogue  
 Anim Pack £5.49  
 4 great disks from Eric Schwartz

### Utilities - Graphics

206 SID2 directory utility  
 208 NComm terminal prog.  
 227 Kickstart 1.3 - boots A1200 into 1.3 mode  
 500 ElectroCAD  
 708 Grapevine12 - diskmag  
 800 bBASEII - database  
 1103 CineMorph Demo2  
 1138 InScript - video titler  
 1502 Ham-8 Vistas 1200 only

### Music

4005 I'm Too Sexy (2D) +  
 4006 Money for Nothing +  
 4007 Total Restyle +  
 4008 Sound of Silents  
 4014 Ride on Time  
 4105 Great Balls of Fire  
 4016 Bad Boyz + 1mB  
 4020 Blackadder II +  
 4021 Pet Shop Boys  
 4023 Sonic Jukebox +  
 4024 Led Zeppelin (2D) +  
 4025 David Bowie 1  
 4026 Fleesh for Fantasy

### Virus Checker on most bootable disks

Catalogue - £1.00 (2d) or free with 5 or more disks  
 1 - 10 Disks - £1.50 11 - 20 Disks - £1.20  
 Over 21 Disks - £0.99p  
 Please add 80p per order to cover postage  
 Latest Assassins Games in stock up to Volume 67

### Fish Disks 350-750 available

(2D) = 2 disks (3D)=3 disks etc.  
 + works on A500, A500 plus and A600 x after disk number = 2 drives req.  
 Please make cheques or postal orders payable to Ham Graphics

Catalogue lists details of Demos, Music, Anims, Slideshows, Games, Utilities etc.

# Amiganuts

Public Domain Library  
12 Hinkler Road Southampton Hants SO2 6FT  
Telephone Enquiries(0703) 470017

### UTILITIES

1265 Word Power V1.1  
 1266 AGraph & Freepaint (P)  
 1268 UEDIT V3 (P) (1Mb)  
 1269 PCTask (P) (1Mb)  
 1275 The Money Program (P)  
 1319 Super Sound v2.1a (P) (Mb)  
 1337 Relokit 1.3 (P only) (1Mb)  
 1339 OctaMED v2 (P) (1Mb)  
 1341 TextEngine v4 (P) (1Mb)  
 1342 Checkbook v2.3 (P) (1Mb)

### GAMES

1277 Fatal Mission (P)  
 1280 Defenda (P)  
 1281 Wot's It's Name (P)  
 1283 Catacombs (P)  
 1296 Mental Image I (P)  
 1297 Mental Image II (P)  
 1307 Sanity (P)  
 1313 Strikeball I (P)  
 1320 Denver Duk (P)  
 1323 The Dart Machine (P)  
 1324 2 Neighbours Game (P) Mb)

### MISCELLANEOUS

1312 2 The Journey (P) (Mb)  
 1322 Dolphin Dreams (P)  
 1315 Sudden Impact AMOS Mag (P)  
 1329 Jesus on E's(2) (P)  
 1330 RSI Timezone Demo  
 1338 State of The Art (Rave) (P)

### ASSASSINS GAMES DISKS

ASI 41 Hellzone, Delux Pacman, Leap II, Tractor Beam  
 ASI 42 Galaga 92, Dogs In Space, Intruder Alert  
 ASI 43 Octothello, Roulette, Interlock, Gameboy Tetris

ASI 44 Galaxy89, Mouse Impossible, Roll On, Nibbler  
 ASI 45 Kastle Kumquat, Ditrts, The Brain, Parcheese.  
 ASI 46 Atom Smasher, City, Ouch Amiga Q, Isolation, Checkers.  
 ASI47 Elevation, Crave, Arena Furmyre

### ASSASSINS PACKS

Any 10 Assassins Disks for £11.50  
 Any 20 Assassins Disks for £21.50  
 Any 40 Assassins Disks for £42.00

### PD PACKS

MUSPO Music Maker Pack--£5.50  
 OctaMED v2 with docs, SuperSound v2 2 disks of samples and 1 disk of modules. 5 disks in all. Must be the best pack of its type available!!!  
 MUSPI OctaMED Samples--£9.00  
 A 9 disk set of samples for use with OctaMED. Very popular!!!  
 MUSP3 OctaMED Modules--£15.00  
 A 14 disk set of modules for use with OctaMED.  
 ANIM1 Schwartz Pack --£5.50  
 A 5 disk set of Eric Schwartz animations that will run on any 1 Meg Amiga Includes the Aerotoons!  
 New/PD Starters Pack --£5.50  
 A 5 disk set including a Workdisk animations, a demo, utility disk and a games disk.  
 BUSP1 Productivity Pack --£5.50  
 5 disk containing more serious software. Includes a Word Processor, A Database, Spreadsheet, Finance Manager etc, etc..

### PD PRICES

\*\*All PD supplied on branded disks\*\*

### POSTAGE

	E.C.	WORLD
1 TO 5	£0.60	£1.50
6 TO 10	£0.60	£3.00
11 TO 20	£1.00	£7.00
21 or more	£2.00	£9.00

### Licensoware

\*\*\* Note that Postage Prices\*\*\*  
 \*\*\* Still apply, unless you \*\*\*  
 \*\*\* are ordering OctaMED\*\*\*

### OctaMED Pro v4

The definitive sequencer. Utilise up to 8 channels using the Amiga or 16 with MIDI. Can enter notes, display and print in standard tracker format or stave notation.

### Europe Prices

OctaMED & Manual	£30.00
OctaMED	£22.50
Manual	£8.50

### Rest of World

OctaMED & Manual	£32.00
Manual	£10.00

AMFC (£10.00) Music File converter. This program will allow you to convert between various sequencer formats including MusicX, SMUS etc.

Frac2(£5.00) The Adventure game-creator Received excellent reviews

A-Gene (£15.00) World famous family tree program

ACC (3.50) The Amiga Coders Club disks. Now in it's third year, of interest kto new and seasoned coders. Issue 30 available at last!!

### Fruit machine (£3.50)

Got to be the best version yet!  
 The graphics are stunning kand the gameplay as smooth as you expect from a coded game.

AmiDash (2.00)A true to the original clone of Boulderdash. Will run on a v2 machine if using Relokit1.3

SuperSound v3 (3.50) An excellent sampling package that allows numerous effects to be applied to sampled sounds.

### Central Licensoware Register

The total Concepts disks in this series utilise a 'HyperBook' presentation that makes for quick and easy viewing. These disks offer great value for money.:

CLE01 TC Dinosaurs (4.50) 2 Disks .....By far the most popular.  
 CLE02 TC-Geology (4.50) 2 Disks  
 CLE03 TC- Solar System(4.99) 3 Disks  
 CLE07 TC - Freshwater Fishing(4.50)  
 CLE14 TC - Ecology (4.99) 3 Disks  
 Other educational programs available are:

CLE11 Lets learn. Great for young kids  
 CLE08 Night Sky (3.50) Identifies stars. For astronomers!

CLE06 Maths Tutor (3.50) good companion for GCSE students.  
 CLE05 A -Chord (3.50) Show budding guitarists where to find chords.  
 CLE15 Fastfree (3.50) Speed drills and practise for lead guitarists.

The following Disks are available from the CLR utility range:

CLU01 Video Titler (3.50) Nice and easy to use.  
 CLU03 Typing Tutor (3.50) This is an excellent program!!  
 CLU11 Calc1.3 (3.50) Efficient and easy to use spreadsheet.  
 CLU14 Stock Controller (3.50) VGood at it's job.

This is just a small selection of the CLR titles available. More details can be found on our catalogue disks.

Please make Cheques/Postal Orders payable to: **Amiganuts**

Why not visit us on our stall at Southampton's Kingsland Market in S Mary's St. We are there every Saturday from 9.00am until 4.00pm. We also sell accessories on the stall at very competitive prices. So if you are in the area why not pay us a visit and we will be able to demonstrate the software etc that you are after.

For a copy of our catalogue please send a S.A.E. preferably a padded envelope to protect the disk in transit

# VIDEO VAULT

**Cybervisual trance morphing – all these buzzwords and more can be found in this month's video selection, perused by Tony Horgan.**

## GLOBAL CHAOS

**HEX £10.99**

For a full-on techno-visual experience, this is your best bet. Clocking in at a full hour long, it's a non-stop trip from hardcore to ambient, taking a scenic route via techno and house. Amigas featured heavily in the production of the visuals, together with a couple of Macs and Archimedes.

Rather than a continuous barrage of sound and vision, the video has 12 distinct stages, each with its own unique mood, soundtrack and graphics. This is a good idea, and makes a change from some of the never-changing alternatives. For example, if you want to change the vibe, you know you've only got to wind the tape forward or back a few minutes, and you've got a fresh style of graphics and music.

The stars of the show are the ray-traced aliens. These semi-humanoid creatures leap around like mad things, prodding keyboards and performing weird ritualistic dances. Extra spook factor is given to some by the addition of video feedback, a simple technique that results in some freaky effects.

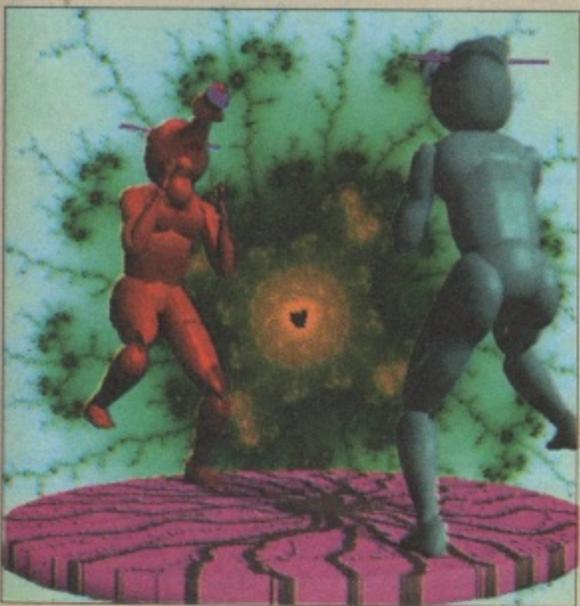
Strobing images of fractals, random colour-cycles, snippets of digitised animations, and clips of real-world video are all mashed up together. Towards the end there's a change to more soothing sounds and gently evolving images, including a flight around a volcano crater, which was submitted by a CU AMIGA reader after seeing our profile of Coldcut a few months ago.

We like this one. Where others make the mistake of being too techie, losing sight of what actually works,

*Global Chaos* uses the technology to excellent effect. If you want to catch it live, keep your ear to the ground – Hex and Coldcut are currently VJing at various one-off club nights around the capital.

**Available from: HMV, Virgin, Our Price, Tower Records and all major video retailers. For further information, contact Imagine on 071 734 7372.**

**90%**



## THE IRRESISTIBLE FORCE

**TELSTAR VIDEO ENTERTAINMENT £10.99**

For those Condor moments, you might like to take a look at this one from *The Irresistible Force*. It comes with a warning of its '1.4 Gigatherms chillout factor', and aims to 'transcend the inner chambers of your mind'.

Mixmaster Morris has supplied the soundtrack, all of which is on the ambient side, but maybe not quite what you'd expect. Instead of the long, filter-swept analogue synth sounds that form the basis of many chillout tracks, these are more rhythmical, but still undemanding, which is important when you're cabbaged.

The visuals come courtesy of GJ Productions, the team behind *Temple of Kaos*. Anyone who's seen either of the earlier two *Dance in Cyberspace* videos will have some idea of what's on offer. Surprisingly, the harsh strobes and spiky vector graphic styles haven't been toned down that much for *The Irresistible Force*. When it flows, it's pretty smooth, but some of the visuals clash with the soundtrack now and then.

It does have its moments though, and the points where it all clicks into place make up for the lower spots. Don't get me wrong – it's just that I was hoping for a complete mong-out session, and this is still twitching from time to time. That's not really a criticism though. If you want something with a bit of life, but don't fancy an onslaught of drum and bass, this could be the ticket.

**Available from: Telstar Video Entertainment, The Studio, King Edward Mews, Byfield Gardens, London, SW13 9HP.**

**78%**

## DR DEVIOUS AND THE TEMPLE OF KAOS

**GJ PRODUCTIONS £10.99**

This is the third video from the brains that brought us *VR Dance in Cyberspace 1+2*. *Temple of Kaos* is a continuation of the theme, and even though the name has changed, the idea is the same.

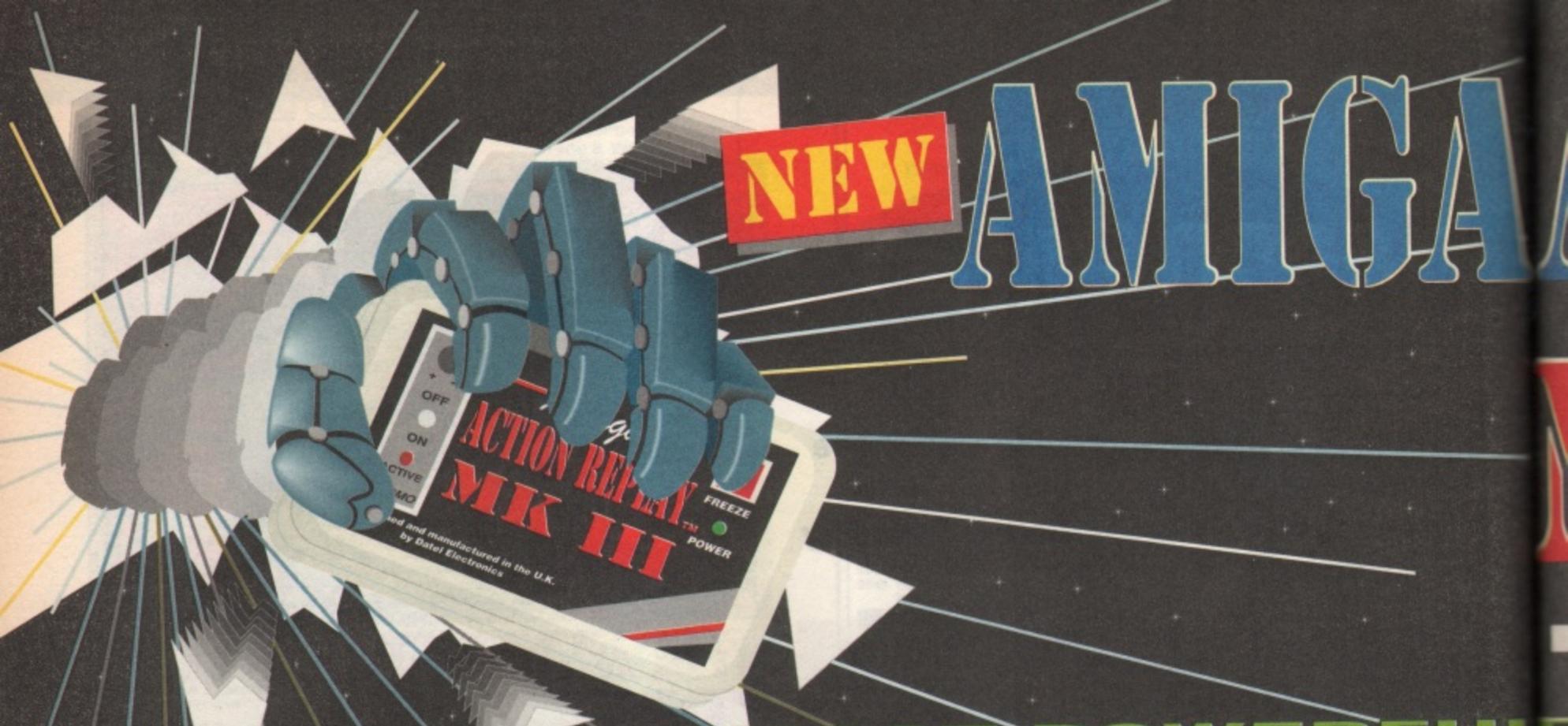
It's another 45-minute job, and in terms of mood, this is more along the lines of *Global Chaos* than *The Irresistible Force*. The soundtrack's by Dr Devious (Guru Josh in a former life), and pumps along in a trancey kind of vein, but more melodic than a lot of the current club sounds, which is probably better suited to home listening anyway.

Bags of technical trickery has gone into the making of the video – mainly Amigas and souped-up PCs for most of the fractal animations, strobes and 3D objects. Quite a lot of it's also been through a VideoToaster. On top of the graphics, there's a human element in the form of chromakeyed faces and dancers, and some of the old favourite effects from *VR 1+2* make another appearance.

Most of the raw sequences are pretty good, but a lot of the effect is lost when too many images are faded together. More is less in this case. Even so, there's plenty to keep you interested, from the 3D worlds to the abstract 2D images. It would have been nice to see some more variation from the format of the first two *Cyberspace* videos – if you have either of those, most of this will look very familiar. However, newcomers should have plenty to get stuck into.

**Available from: All major high street video retailers. For further information contact GJ Productions on 081 995 2723.**

**75%**



**NEW**

# AMIGA

## THE WORLDS MOST POWERFUL

### JUST LOOK AT THE UNMATCHED RANGE OF FEATURES

#### **SAVE THE ENTIRE PROGRAM IN MEMORY TO DISK**

Special compacting techniques enable up to 3 programs to fit on one disk. Now saves directly to disk as Amiga Dos - reloads independently of the cartridge - even transfer to hard drive! Works with up to 2 Megs of Ram - even 1 Meg Chip Mem (Fatter Agnus).

**NEW**

#### **SUPER POWERFUL TRAINER MODE**

now with DEEP trainer. Even better than before - allows you to generate more or even infinite lives, fuel, ammo. Perfect as a Trainer Mode to get you past that "impossible" level. Easy to use.

#### **IMPROVED SPRITE EDITOR**

The full Sprite Editor allows you to view/modify the whole sprite set including any "attached" sprites. PLUS A RANGE OF IMPROVED FEATURES.

#### **VIRUS DETECTION**

Comprehensive virus detection and removal features to protect your software investment. Works with all presently known viruses.

**NEW**

#### **BURST NIBBLER**

Now this super disk copier program is built into Action Replay Mk III. Just imagine a superfast, efficient disk copier program at the press of a key - no more waiting.

#### **SAVE PICTURES AND MUSIC TO DISK**

Pictures and sound samples can be saved to disk. Files are saved directly in IFF format suitable for use with all the major graphic and music packages. Samples are displayed as screen waveform.

**NEW**

#### **PAL or NTSC MODES SELECTABLE**

Useful for removing ugly borders when using NTSC software. (Works only with newer Agnus chips).

**NEW**

#### **SLOW MOTION MODE**

Now you can slow down the action to your own pace. Easily adjustable from full speed to 20% speed. Ideal to help you through the tricky parts!

#### **MANY MORE INSTANT CLI COMMANDS**

like Rename, Relabel, Copy, etc.

**NEW**

#### **RESTART THE PROGRAM**

Simply press a key and the program will continue where you left off.

#### **FULL STATUS REPORTING**

At the press of a key now you can view the Machine Status, including Fast Ram, Chip Ram, RamDisk, Drive Status, etc.

#### **POWERFUL PICTURE EDITOR**

Now you can manipulate and search for screens throughout memory. Over 50 commands to edit the picture plus unique on screen status "overlay" shows all the information you could ever need to work on screens. No other product comes close to offering such dynamic screen handling of frozen programs!!

#### **JOYSTICK HANDLER**

allows the user to select Joystick instead of Keypresses - very useful for many keyboard programs.

#### **MUSIC SOUND TRACKER**

With Sound Tracker you can find the complete music in programs, demos, etc. and save them to disk. Saves in format suitable for most track player programs. Works with loads of programs!!



**HOW TO GET YOUR ORDER FAST!**

ALL CHEQUES/POSTAL ORDERS MADE PAYABLE TO.....

**DATEL ELECTRONICS**

GOVAN ROAD, FENTON INDUSTRIAL ESTATE, FENTON,  
STOKE-ON-TRENT, ST4 2RS, ENGLAND. FAX 0782 744292  
TECHNICAL/CUSTOMER SERVICE 0782 744324

OR CALL AT OUR LONDON SHOP

# ACTION REPLAY

## MK III

STILL ONLY

£59.99

AMIGA A500/500+

FOR 1500/2000 VERSION £69.99

### FREEZER-UTILITY CARTRIDGE

#### AUTOFIRE MANAGER

From the Action Replay III preference screen you can now set up autofire from 0 to 100%. Just imagine continuous fire power! Joystick 1 and 2 are set separately for that extra advantage!

**NEW**

#### IMPROVED RAM EXPANSION SUPPORT

Now many more external Ram Expansions will work with all Action Replay III commands.

#### DISKCODER

With the new "Diskcoder" option you can now 'tag' your disks with a unique code that will prevent the disk from being loaded by anyone else. "Tagged" disks will only reload when you enter the code. Very useful for security.

**NEW**

#### SET MAP-

allows you to Load/Save/Edit a Keymap.

#### PREFERENCES

Action Replay III now has screen colour preferences with menu setup. Customise your screens to suit your taste. Very simple to use.

#### DISK MONITOR

Invaluable disk monitor - displays disk information in easy to understand format. Full modify/save options.

#### IMPROVED PRINTER SUPPORT-

including compressed/small character command.

**NEW**

#### DOS COMMANDS

Now you have a selection of DOS commands available at all times - DIR, FORMAT, COPY, DEVICE, etc.

**NEW**

#### FILE REQUESTER-

if you enter a command without a filename, then a file requester is displayed.

#### DISK COPY

Disk Copy at the press of a button - faster than Dos Copy. No need to load workbench - available at all times.

#### PLUS IMPROVED DEBUGGER COMMANDS-

including Mem Watch Points and Trace.

**NEW**

#### BOOT SELECTOR

Either DFO or DF1 can be selected as the boot drive when working with Amiga Dos disks. Very useful to be able to boot from your external drive.

### PLUS A MACHINE CODE FREEZER MONITOR WITH EVEN MORE POWER!!

#### EVEN MORE FEATURES INCLUDING 80 COLUMN DISPLAY AND 2 WAY SCROLLING:-

- Full M68000 Assembler/Disassembler
- Full screen editor
- Load/Save block
- Write String to memory
- Jump to specific address
- Show Ram as text
- Show frozen picture
- Play resident sample
- Show and edit all CPU registers and flag
- Calculator
- Help command
- Full search feature
- Unique Custom Chip Editor allows you to see and modify all chip registers - even write only registers
- Notepad
- Disk handling - show actual track, Disk Sync. pattern etc.
- Dynamic Breakpoint handling
- Show memory as HEX, ASCII, Assembler, Decimal
- Copper Assemble/Disassemble - now with suffix names

REMEMBER AT ALL TIMES YOU ARE INTERROGATING THE PROGRAM IN IT'S "FROZEN" STATE WITH ALL MEMORY AND REGISTERS INTACT - INVALUABLE FOR THE DE-BUGGER OR JUST THE INQUISITIVE!

**WARNING 1988 COPYRIGHT ACT WARNING**  
 Datal Electronics Ltd., neither condones nor authorises the use of it's products for the reproduction of copyright material.  
 The backup facilities of this product are designed to reproduce only software such as Public Domain material, the users own programs or software where permission to make backups has been clearly given.  
 It is illegal to make copies, even for your own use, of copyright material, without the express permission of the copyright owner, or the licensee thereof.



## 24 HOUR MAIL ORDER HOTLINE

# 0782 744707

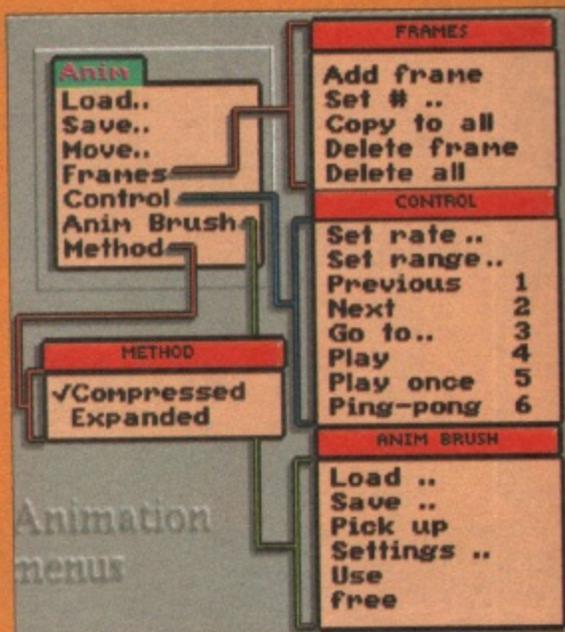
ORDERS NORMALLY DISPATCHED WITHIN 48 Hrs.



# DELUXE PAINT

## PART 7

Over the past six months we've been laying bare *DeluxePaint*'s artistic soul. But at the heart of the program is one of the most powerful animation systems on a home computer. This month Peter Lee undoes the nuts and bolts in a bid to get you moving...



The Anim menu structure opens the door to *DPaint*'s real power. If you have sufficient memory, or only a short animation then select Expanded from the Method option. This takes up much more RAM than Compressed, but leads to smoother presentations. We'll be delving further into this area next month.

It's often said that *DeluxePaint* is the yardstick by which Amiga art packages are measured. But really it's in a class of its own for completeness. This didn't happen overnight; Electronic Arts has always had its rivals, but *DPaint* only hit top spot with version III, and the reason was the inclusion of animation. *DPaint* has evolved to version IV now, with much more animation control than before. But the basics remain intact, and although initially we'll be concentrating on getting things moving in *DPaint III*, it's still relevant to *DPIV* users.

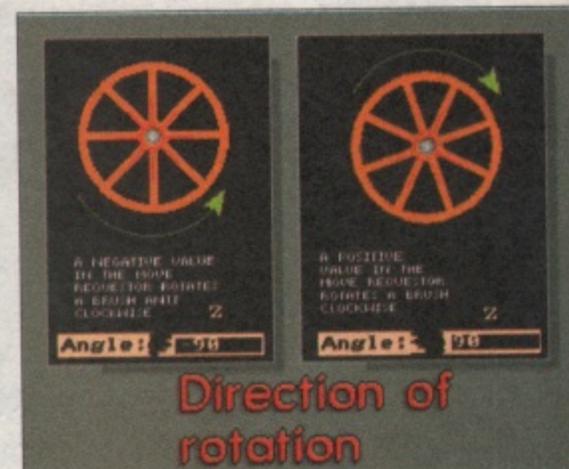
*DPaint* needs computer RAM to store its images in as you work on them. When drawing single images this rarely presents a problem on machines with the minimum of RAM, but for animation work

you really do need as much memory as you can get. Anything less than 1Mb of RAM will prevent you from creating lengthy or complex animations, and even then you may find a meg just too restricting. Another factor in determining the number of frames is how complex your screen animations are. If lots of things are moving then *DPaint* will have to store more information, which leads to bigger RAM overheads. This is because the program saves the differences between animation frames rather than the whole frame.

**TIP:** To minimise storage overheads on an animation, try to keep the background static.

### DOWN TO BUSINESS

When you start *DPaint*, it defaults to a single drawing screen. To create an animation you need to tell the program how many frames you intend using, and the way to do this is to pull down the Anim menu, and from the Frames item select Set # (which is American for set number!). Actually you have an earlier choice which affects the way your animations are stored by the program. When I mentioned that *DPaint* stores the differences between each frame in its Anim file, I was only giv-



Putting minus values in the Move requestor rotates or moves brushes in the opposite value to positive values.

ing half the picture. If you want, you can have the frames stored in a file of complete screens. This can take up vast amounts of memory and disk storage space – it's like saving as many single screens of artwork as you have frames in your animation.

So why bother? Because *DPaint* doesn't have to do any decompression as it plays them more fluidly. **TIP:** If you choose expanded, there's no need to guess how many frames your animation will hold. The program calculates how much free RAM you have, and offers the total number of frames you can use in the Frame # requestor.

### FIRST STEPS

*DPaint*'s Move requestor can be off-putting at first – it's chock full of options. But once you know what each feature does, you will find it easy to control complex movement. We'll be moving onto that later, but first we need to understand the basic procedures. First things first – you need a custom brush to move about. This can be anything from a drawing to a coloured shape, text or a digitised image. Once you've cut it out with the brush tool (or loaded in an image as a brush) you can call up the

### QUICK KEYS

Quick keys for controlling animation (note – these keys are on the main keyboard, not the numeric keypad)

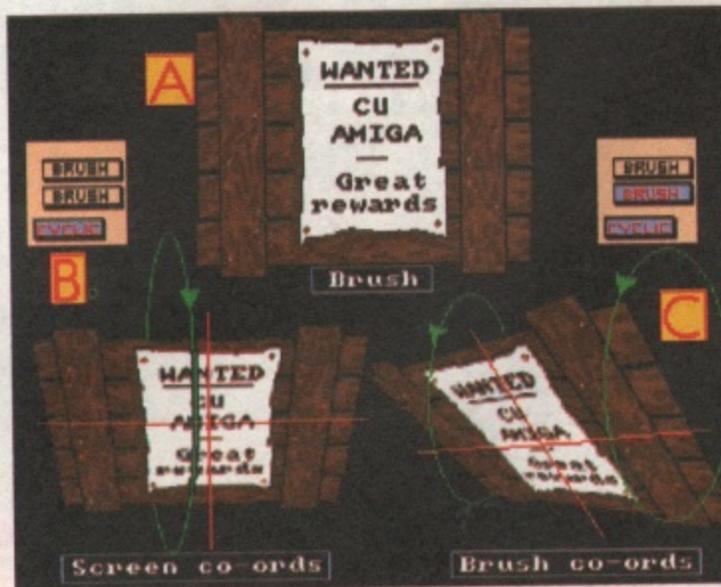
- 1 – Move to previous frame
- 2 – Move to next frame
- 3 – Go to frame (enter number in requestor)
- 4 – Play animation continuously
- 5 – Play animation once
- 6 – Play animation in ping-pong mode (Forward <-> Back)
- 7 – Move to previous Anim Brush cell (if animbrush defined)
- 8 – Move to next Anim Brush cell (if animbrush defined)

### SHIFT and the following

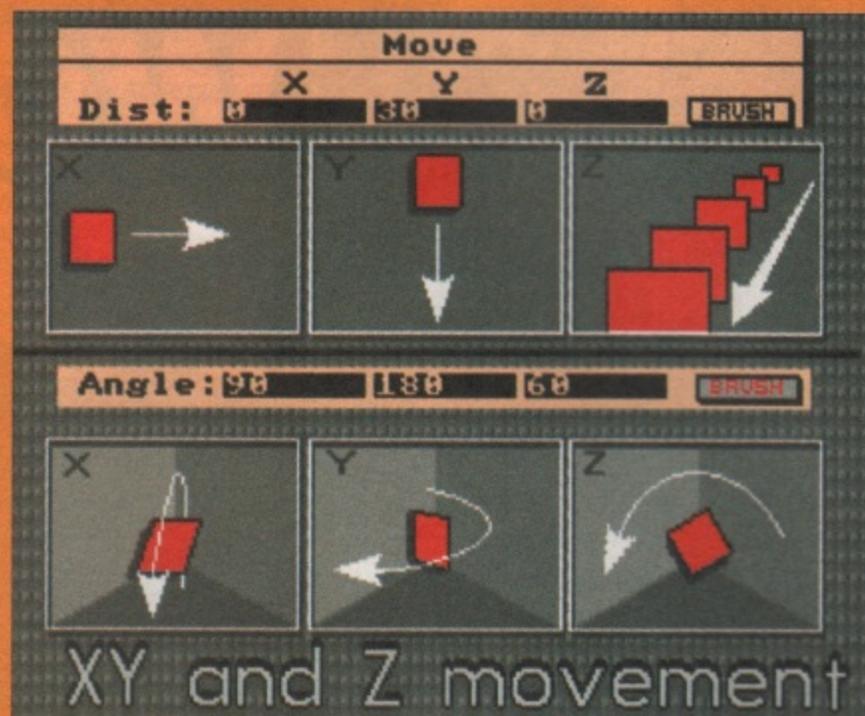
- 1 – Go to first frame
- 2 – Go to last frame
- 3 – Go to the frame you last did a 'go to' to
- 4 – Play animation continuously backwards
- 5 – Play animation once in reverse order
- 7 – Go to first Anim Brush cell (if animbrush defined)
- 8 – Go to last Anim Brush cell (if animbrush defined)

### OTHER KEYS

- M – Move requestor
- r – Reverses animation while it is playing
- Space bar – Stops animation playing
- Left arrow – Slows down animation as it plays
- Right arrow – Speeds up animation as it plays
- ALT – When used while painting, turns on anim painting.



The *DPaint* Move requestor allows you to choose to animate using the screen or brush co-ordinates. The difference is apparent here. If you have altered the perspective of your brush (lower right) and choose Brush co-ordinates, *DPaint* will animate in perspective.



Once our animation tutorials are finished this powerful requester will be an old friend. Meanwhile check out this month's tutorial for the first part on mastering its effects.

It's sometimes hard to envisage how DPaint 'imagines' a 3D world. Here I've represented the effects available in the Move requester's Dist(ance) and Angle boxes.

Move requester (Keyboard M) and enter the values the program needs to calculate the animation.

**TIP:** DPaint works out the path of your brush based on its last position, which is initially where you clipped it from. You can create a new position by stamping the image down on-screen in the location you want. If there's something on-screen already in the place you want the brush to be animated, click Undo immediately after stamping down the brush. If the area is just background colour, stamp the brush down by using the right mouse button.

### MOVING THINGS

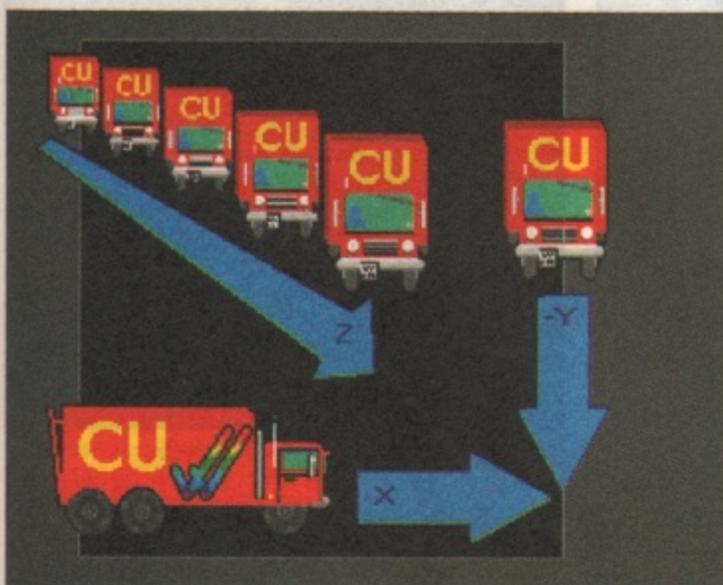
The first row of figures in the Move requester is headed Dist:, and typing values here affects the way your brush moves on the screen. X and Y refer to horizontal and vertical movement respectively. Z is more complicated, but if you followed our earlier tutorial on perspective you should remember that's the imaginary plane which stretches 'backward' and 'forward' from the front of the screen. Giving a minus value in any of the Distance options will make your brush move in the opposite direction. To recap - a value of 100 in the

X Distance box will move your brush 100 pixels horizontally across the screen; the same value in the Y box moves the brush up, and entering 100 in the Z box will appear to diminish the brush by moving it back from your point of view. The identical measurement boxes labelled Angle work similar magic, but they give the X and Y plane depth by allowing 3D rotations to be made. Imagine the effect of using the Y angle as a coin spinning in one spot on its edge on a table; the X angle is like a coin being flipped in the air, and the Z angle is like the coin rolling along the floor. You can use any of these six boxes individually or in conjunction with each other. In this way you can define complex movement paths to rotate brushes as they move across the screen.

### SPINNING'S TOPS!

The three buttons to the right of the main requester cause most confusion. People tend to ignore the two Brush boxes and the one labelled Cyclic. If you leave them as their default state you'll still get an animation, but it's worth taking the time to find out what they do. Here's how they affect what's happening on screen. The two Brush boxes control whether

DPaint rotates the current brush along the screen axis or along the brush's own axis. A tick in either box shows that it's the brush axis which is being used, and each box refers to the Distance or Angle settings alongside it. You can have one, both, or no boxes ticked. If your brush is a straightforward screen clip, then the boxes will have no effect. If you have a brush which you have rotated in perspective, the brush will have its own co-ordinates, and it is these which DPaint will use to calculate any movements you request. By clicking on the Cyclic box, you tell DPaint to seamlessly end the brush animation in relation to the brush's starting position; this means that if you spin a brush around 360°, the final frame is not drawn with a 360° turn. If it were, it would be identical to frame one, and you would have a momentary pause during playback as identical images were shown. Instead DPaint compensates for the starting position. **CU**



Visualising how DPaint mimics real-world space is half the battle to pre-planning your animations. Here you can see how a brush would travel in the X,Y and Z planes in the Move Dist. requester.

### THE OTHER SIDE

One neat effect is a spinning object. In our example we've a simple plaque which revolves to show two sides. Draw your initial image and copy it. Place your text on each image and switch to the blank alternate screen. Create a 20-frame animation. Cut out the first image as a brush from the spare screen and move back to the first frame, marking the position of the brush by clicking with the right-hand mouse button. Call up the Move requester and in the Count box enter 10. Type 180 in the Angle Y box and click on Draw. Your brush will be drawn and rotated through 180° over 10 frames. Move back to the spare page and pick up brush number 2 with the alternative text on it. Go back to the animation, and to frame 1. We have to show DPaint that this new brush will be in the same position as the old one, so we need to stamp it down. Cover up the original brush in frame one exactly with brush 2, and click. Immediately Undo the move. Now go to frame 11, and call up the Move requester again. All you need to do is click in the Record << box, which tells DPaint to animate backwards, and click in the Move box with the arrow pointing towards the blob. Select Draw again, and the brush will be painted on screen for the remaining 10 frames. When played back, your animation should show both sides of the brush revolving.



### NEXT MONTH

Peter Lee delves further into the most effective way of controlling your animations, with advice and tips to let you squeeze every ounce out of DeluxePaint. We'll also be looking at more hand-made animation techniques.

The power of the shell isn't limited to one-off commands. This month learn how to re-write the script...

# WORKBENCH TUTORIAL

PART

6

One of the things that puts the Amiga way ahead of the PC is its friendly and powerful Graphical User Interface (GUI). This is all very well, but the Apple Macintosh has a friendly and easy to use GUI, too. Well, one of the things that puts the Amiga way ahead of the Mac is its powerful Command Line Interface (CLI). You must often have happened upon a set of circumstances where a seemingly easy task is made impossible by the constraints of the GUI. These occasions are a job for the CLI, but there are also instances where the CLI can make the GUI easier to use.

## FIRE AND FORGET

The CLI doesn't have to be a simple solution. Everyone knows that it is the most direct and effective method of performing a wide range of everyday tasks. Even with the complexity of something like Workbench 3.0, there are still some tasks which are easier to perform in the Shell.

A knowledge of AmigaDOS commands is essential if you wish to customise your setup on a 1.3 machine, and it is still a worthwhile area of the machine to explore if you have the very latest Amiga.

Although you may have used the Shell or CLI in 'direct mode', where every command is executed as you type it in, it can be useful to put a series of commands together in a script. This is just a list of commands, each on a separate line, which will run



### 1.3 STARTUP STARTUP-SEQUENCE

```

Addbuffers df0:10
C:Setpatch >NIL:
cd C:
echo "A500/A2000 Workbench disk
Release 1.3 Version 34.19*N"
Sys:System/FastMemFirst
BindDrivers
Setclock load
FF >NIL: -0
resident CLI L:Shell-Seq SYSTEM pure add
resident c:Execute pure
mount necon:
Failat 11
run execute s:Startup11
Wait >NIL: 5 mins
SYS:System/setmap USA1
path ram: c: sys:ilities sys:system s: sys:prefs add
LoadWB delay
endCLI >NIL:
    
```

## EXECUTE COMMAND

Remember that under Workbench 2.0 it is not necessary to open a shell or CLI to execute an AmigaDOS command. All you have to do is use the 'Execute Command' entry in the Workbench menu. The hotkey for this command is Amiga & E held down simultaneously.

You can type any command you like into the gadget which appears on screen, and if there is any resulting output a window will be opened to display it.



### 1.3 STARTUP STARTUPII

```
Resident c:Resident pure
resident c:llist pure
resident c:cd pure
resident c:mount pure
resident c:assign pure
resident c:makedir pure
makedir ram:t
assign t: ram:t
makedir ram:env
assign env: ram:env
makedir ram:clipboards
assign CLIPS: ram:clipboards
mount speak:
mount aux:
mount pipe:
resident mount remove
resident assign remove
resident makedir remove
break 1 C
```

in sequence when the script is executed.

The most important scripts you are likely to come across are the ones which lurk in the S: directory of your startup disk. The most important of these is the one called 'startup-sequence' as this is the very first thing to be executed when you turn your machine on.

### STARTING UP IS HARD TO DO...

One of the major difficulties people face under AmigaDOS is not due to some software failure or badly coded program, but simply because the system has not been set up correctly.

Usually this is the fault of some installer not doing its job properly, some file in the wrong place or a startup sequence that isn't working right. The Startup-sequence is a small piece of code which is the file which is executed when the Amiga starts up. Everything else that happens at startup – preferences, Workbench loading, directory assigns, commands being copied to memory – all these are performed by the startup sequence. But, this magic bit of code isn't some nasty compiled object file, it is just a script file, written as a sequence of CLI commands. The examples on these pages show the standard startup sequences supplied with Workbench 1.3 and 2.0.



The old 1.3 startup is a bit complicated. Initially, buffers are added to the drive and the system setpatch is run.

FastmemFirst is a utility which forces the system to use any expansion RAM ahead of valuable on-board Chip RAM. FF is a utility which patches the AmigaDOS font system to speed it up.

After that a variety of system commands are made resident and a second script is executed. The startup sequence waits for this extra script to finish, then opens Workbench and closes its window.

The second script is used because it can take advantage of all the resident commands. This sets up a few directories in RAM to store temporary files (t:) and environment variables (env:).

If you want to add anything to this script, it is better to add it to the second script. Typical additions would be directory assigns or running useful utilities at boot-up. If you wanted to have a directory called 'tempwork' which you could treat as a separate logical device, all you would have to do to the startup-sequence is add the line:

```
Assign Tempwork: Hard:temp
as you would if entering the line at the CLI.
```

The usefulness of having these commands entered at startup is that the whole way your AmigaDOS system works can be altered. If, for example, you had a CD drive connected which contained all your fonts, you could use the startup sequence to assign the system font directory to be

the CD device. Every time the system, and consequently any time that any Workbench friendly program, tried to access a font it would be redirected to the CD drive.



Under system 2.0 and up, startup sequences get a bit more tricky. The first thing to be considered is the fact that all the commands, up until 'IPrefs' is called, are all patched so that their output is redirected to the Nil: device. Effectively this means that no window is opened until halfway through the sequence, which accounts for the apparent delay at startup. There is a good reason for this, and it appears immediately after all the system assigns have been made. This piece of code cunningly creates a script file, containing the complete pathnames of every monitor currently stored in the Devs:Monitors path of your startup disk. All of the preference settings, are set up by the IPrefs command.

This leaves the secondary startup file (user-startup) free for customised assign statements. The example shown here is of a hard disk based machine with a few commercial programs already installed. Well written installer programs will include any device assigns or special commands they need in a file called 'user-startup' or 'startupII', which is where you should put yours. If you do not put comments in this file (comments begin with a ';') it will be very hard to remember exactly which commands are relevant to which piece of software.

### DOING IT WITH ICONS

For a script to be run from the CLI or Shell, you use the 'execute' command. This tells the operating system that the file is not an executable object file, such as would be produced from a compiler, but rather a script file of AmigaDOS commands.

Whilst this undoubtedly saves time, it is still a bit of a chore to enter the CLI to access the commands in the first place. Well, you don't have to.

There is another Workbench command called IconX which is designed specifically to link script files to icons.

The first thing to do is create your script and give it a name. Now you can create an icon. All script files should be given a 'Project' type of icon, which means that it requires a 'Tool' to run properly.



Under Wb1.3 this means that you will have to copy the icon from a file which already has this type of icon. A typical project-type icon is the 'pointer' icon in the Prefs drawer. Simply copy this using the command:

```
copy :prefs/pointer.info :script.info
assuming that your script file is called 'script'.
```

Select the icon from Workbench (you may have to close the disk window and re-open it for the icon to appear) and select 'Info' from the Workbench menu.

In the 'default tooltype' gadget you should delete the text referring to Prefs and insert: 'C:IconX' in the gadget. Delete the extra 'tool types' text and click on save. Your Script now runs from the Workbench without you having to type anything.



In Workbench 2 and above you can use the IconEdit tool supplied with the Amiga to create a suitable icon. Draw whatever you like, but remember to set the tooltype to be a 'Project'.

Once saved (with the name 'script.info') you should alter the tool types by clicking once on the icon and selecting 'Information' from the Workbench 'Icons' menu. Edit the Default Tool gadget to contain 'C:IconX' and save it. All you have to do now is double-click on the icon to run your script. **CU**

## NEXT MONTH

It's all change next issue as we leave the Workbench behind and concentrate on a brand new series aimed at the novice Amiga user.



### Workbench 2.0 startup

```
$VER: startup=sequence 39.9
(9.8.92)
C:SetPatch QUIET
C:Version >NIL:
C:AddBuffers >NIL: DF0: 15
FailAt 21
C:MakeDir RAM:T RAM:Clipboards
RAM:ENV RAM:ENV/Sys
C:Copy >NIL: ENVARC: RAM:ENV ALL NOREQ
Resident >NIL: C:Assign PURE
Resident >NIL: C:Execute PURE
Assign >NIL: ENV: RAM:ENV
Assign >NIL: T: RAM:T
Assign >NIL: CLIPS: RAM:Clipboards
Assign >NIL: REXX: S:
Assign >NIL: PRINTERS: DEVS:Printers
Assign >NIL: KEYMAPS: DEVS:Keymaps
Assign >NIL: LOCALE: SYS:Locale
Assign >NIL: LIBS: SYS:Classes ADD
Assign >NIL: HELP: LOCALE:Help DEFER
IF NOT EXISTS SYS:Fonts
Assign FONTS:
ENDIF
BindDrivers
C:Mount >NIL:
DEVS:DOSDrivers/~(#?.info)
IF EXISTS DEVS:Monitors
IF EXISTS
DEVS:Monitors/VGAOnly
DEVS:Monitors/VGAOnly
ENDIF
C:List >NIL:
DEVS:Monitors/~(#?.info)VGAOnly TO T:M LFCRMW
"DEVS:Monitors/~s"
Execute T:M
C>Delete >NIL: T:M
ENDIF
SetEnv Workbench $Workbench
SetEnv Kickstart $Kickstart
UnSet Workbench
UnSet Kickstart
C:IPrefs
C:ConClip
Path >NIL: RAM: C: SYS:Utilities
SYS:Rexxc SYS:System S: SYS:Prefs
SYS:WBStartup SYS:Tools
SYS:Tools/Commodities
IF EXISTS S:User-Startup
Execute S:User-Startup
ENDIF
Resident Execute REMOVE
Resident Assign REMOVE
C:LoadWB
EndCLI >NIL:

USER STARTUP
assign cgfonts: sys:cgfonts
assign PPage: hd1:ppage
assign DOpus: hd1:DirectoryOpus4
;BEGIN FRED
assign ADP FRED:
"Work:Artstuff/ADPro2"
;END FRED
;BEGIN MorphPlus (ADProScripts)
assign ADPROSCRIPTS: "REXX:"
;END MorphPlus (ADProScripts)
;BEGIN FRED (FREDScripts)assign
FREDSSCRIPTS: "Work:REXX"
;END FRED (FREDScripts)
;BEGIN ImageFX
Assign ImageFX:
Work:Artstuff/ImageFX
;END ImageFX
```

# VIDEO TITLING ON YOUR AMIGA

Continuing his awesome titling series, Jim Strutton, head of the Amiga Video Producers Group, reveals a host of handy hints for the Amiga videophile.

PART  
**2**

**D**espite the implication of its name, *VideoTitrer* is capable of much more than merely adding text to your videos. Use it inventively, and it can become a valuable tool for video post-production. This month we'll start by looking at its potential for creating backgrounds.

Load up *VideoTitrer* with any preferences you may have set before. On a clear screen, select a Polyfont and type in a small amount of text. Now stretch it until it is about half the width of the screen and adjust the height accordingly. In my example I have typed 'AVPG'. Stamp it down anywhere on the screen with the right mouse button and then pick it up as a text clip, using 'Edit>Clipboard>Set to Text' from the pulldown menu.

Adjust the clip box to make sure you pick up all the text, and then click on the right mouse button to save it to the clipboard. Now clear the text using either the menu option or a combination of the Right Amiga and C keys.

From the menu, select the 'Edit>Paste>Tile full' option. The clip box will reappear, so position it in the upper left corner of the screen and click the right mouse button. The text clip will tile all over the screen. For a different effect, use the 'Display>Quarter>4/4' option from the menu, which puts a 1/4-sized copy of the full screen in each corner of the display.

You may have to use a bit of trial and error before you get this just right, but you can size the text by moving the sides of the clip box and repeating the tile exercise. You can also use the other options on the Display menu to Invert, Mirror, Compress or Duplicate the screen background for more creative effects. Experiment to see what effects you can come up with..



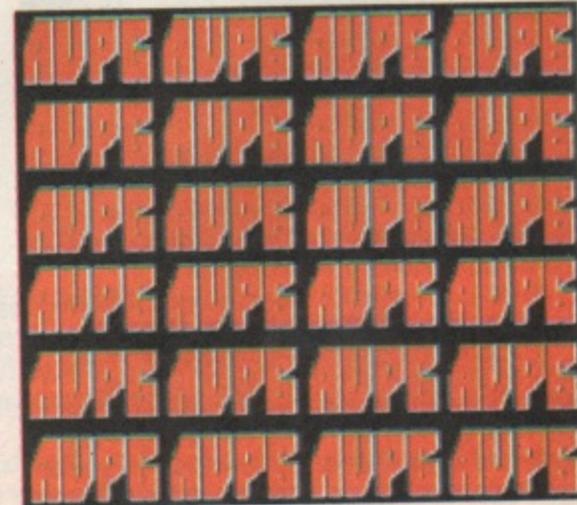
The tile option is a handy shortcut when you're creating backgrounds. You can use teselating patterns for stranger effects.

## TRANSITIONAL BACKGROUNDS

To create a quick background, try using the options under the 'Edit>Clear' menu. The first option clears the screen to colour zero, and the second clears to any solid colour from the current palette. You can also set up a gradient fill.

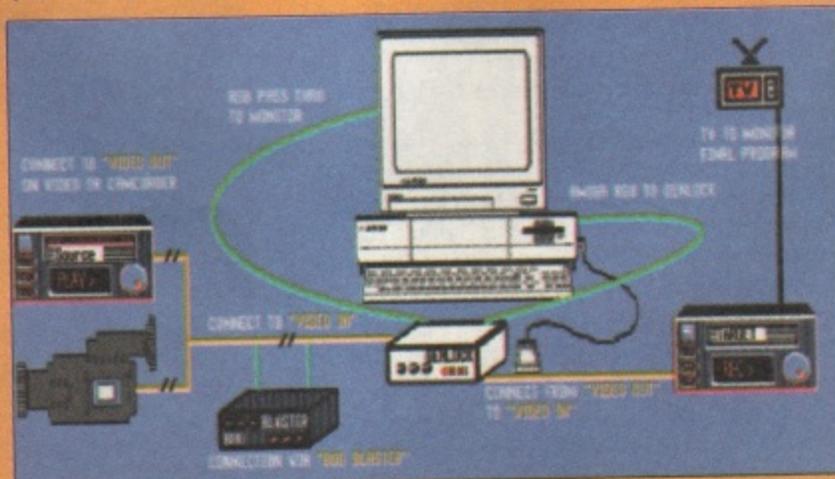
To get a smooth transition from one colour to the next, you should first set up a palette that gradually mixes in elements of red, green or blue into the current colour. You can then set the gradient by selecting the first and last colours in the range when prompted. The only problem is that on interlace, the screen can tend to flicker badly unless you select the colour range with care.

The Blocks option sets up a grid, with a fixed size matrix, over the top of a solid colour background. Again, choose your colours carefully, or it will flicker like mad. The final option puts up a test grid in a fixed colour, which shows the borders of the screen image. You use this to test the screen position and size when using overscan. Some video equipment shows images in a more com-



## TROUBLE SHOOTING

A frequent problem that would-be users find is that the Amiga picture becomes unstable when the Genlock is connected. The most common cause is that the heads are dirty on the source video deck, which is cured by the use of a cleaning tape. If the problem does not go away, then look at the tape. It should be flat, any ripple along the edge is a sign of wear or bad transport in the mechanism. In a professional machine, the cure is to use the built-in timebase corrector. This is a device that restores the sync pulse on the video signal and compensates for any tape faults. Some high-end domestic machines also have these, but there is a device you can add to any system, called a 'Bug-Blaster' at about £60, made by a company called ACT Electronics. This will improve the signal from the source VCR to the Genlock, by re-generating the sync signal. You hook it up as shown in the diagram on the right.



Unstable pictures are common when using a Genlock, but quite often a Bug-Blaster can remedy the problem.

Right: A simple backdrop created with the tile function looks even better when you drop some text over the top.

pressed or expanded form than others, so an over-scanned display still may not fill the screen on certain monitors. Use these grids to test whether you need standard or severe overscan mode. Alter the screen position using the WorkBench Preferences if it is not in the centre of the display.

*VideoTitr* can create screens in the main Amiga resolutions excluding any of the HAM or the new Productivity or AGA modes. When you change any mode from the 'Display>Screen' menu, be warned that the current project is cleared. For most uses you can get away with using either Low-Res or Video-Res modes. Low-Res uses the least memory, but you must remember to set Interlace on before you send these screens to video.

## SUPERIMPOSITION

Much of my postbag at the Amiga Video Producers Group concerns the art of getting titles superimposed over existing video footage. The majority of the problems arise not from the Amiga part of the effort, but from the quality and content of the video footage. Forward planning is the key. At the shooting stage, be aware of any titles you may have to overlay at a later stage. Here are some basic pointers:

- Always use high quality tape in your camcorder. Cheaper tapes do not record as strong a signal as the premium quality versions.
- Invest in a non-abrasive cleaning tape and use it before a recording session.
- Still shots work best for title sequences, so use a tripod or other support to get a steady picture.
- Shoot the sequence too long rather than too short, so that you can cut to the correct length as you edit and add the title.

## IN DEFENCE OF COMPOSITE

The majority of you will be using a normal VHS, VHS-C or 8mm camcorder format. These all use composite video signals, which have a reputation for poor quality. I would like to defend the reputation of composite by saying that 75% of professional TV in the US still uses this method! The resolution of VHS is around 230 to 260 lines, with 8mm being slightly higher. Composite signals are capable of over 360 lines, which is far above the resolution of VHS. The two high band systems, Hi-8 and S-VHS, work by recording the picture brightness and colour levels separately, which gives higher resolution recording, typically with about 400 lines for S-VHS and 420 lines for Hi-8. However, most of the S-VHS and Hi-8 camcorders I have seen, have composite as well as the high band outputs. Therefore, for most uses, I would argue that a composite GenLock can work just as well when creating a VHS tape.

I use a Rendale 8802 composite GenLock on a S-VHS edit suite for the majority of my videos. Originally the same GenLock was used on a Sony U-Matic professional system, which was all composite as well. I have found that the trick is to put the titles on at the very last stage, which normally means on the finished tape. As a composite GenLock can cost only a quarter of a high band version, it can be a good way of making your video budget go further.

You do see some cheaper high band equipment like GenLocks and signal processors. Whilst it may be genuine high band, some devices convert the high band input to composite, process the signal, then convert it back to high band for output. Therefore, this type of equipment is not as good value as it may seem. You may as well buy a composite version and pay less money. The way to avoid buying equipment like this is to ask before you buy. If you cannot get an answer from the store, contact the manufacturer.



It takes a bit of work to plan your shots with regard to post-production titling. Shooting a good video is 40 per cent planning, 20 per cent shooting and 40 per cent editing. As part of your plan, take a spare tape with you, purely to shoot the scenes that you will use for the title sequences of your video. Take the shot that sums up the content of the video. For example, on your next holiday, climb to a high vantage point and shoot a wide angle view of the location. Frame the shot in such a way as to allow your titles to fit into one third of the screen area. Other suggestions are to shoot a view including a bridge or archway, and use it to frame the titles or captions on the finished production.

Try to place the title over a contrasting bit of the video picture. Choose an area of grass, sky, sea, snow or another area with no visual interest, and place the graphic over it. Draw up a grid that divides the screen area into three (vertically and horizontally) and use it as a guide to placing various graphic and picture elements. Draw your graphics in a contrasting colour to show up against the video background. If your choice is for a white or light coloured title, it will look better outlined in black and perhaps with a slight drop shadow.

*VideoTitr* is a good starting point for all the lettering you need. You can set the colours and special effects on the characters to fit your video. Try out effects like distorting the scaleable fonts to fit an area on your video picture. I use *VideoTitr* to create my basic words, which I then save to disk. Next I load the saved pictures in *DPaint*, and cut the words out as brushes, so I can move them around to get the correct placement.

## TITLE WORK SEQUENCE

Try to play back the original tape using the machine that recorded it. For many of you, this will be the usual method, as your camcorder will be the source video in your home video edit suite. The same goes for any soundtracks you may be dubbing over the visuals. With analogue machines,



head alignments and frequency responses will always vary slightly from one recorder to another.

It is worth investing in dedicated cables to connect your source video to the GenLock and on to the record video. This will give a far better signal than a set of universal cables and adapters. Before making the final edit, go through a rehearsal of the sequence of titles and video.

Have your text prepared in *VideoTitr* in advance, save it as a file and pick up the words as a brush in *DPaint*. Having the text as a brush will enable you to accurately position the text within the video picture. Should the colours clash or cause interference, you can adjust the palette at this point before stamping the brush down in the correct place. Use the <F10> key in *DPaint* to turn off the menu bars, before you position the text, as the screen position can shift, especially when using overscan.

It is better to run the camcorder off a fully charged battery when making the final edit, because some mains adapters supplied with camcorders can cause problems by introducing interference from the mains electricity. **CU**

## NEXT MONTH

Next month Jim will be tackling some of the problems experienced with more advanced video production.

# THE BEST DEALS, THE LATEST AMIGA TECHNOLOGY

## AMIGA 600 WILD, WEIRD, & WICKED PACK



ADD A  
**ZOO**  
PACK  
FOR ONLY  
£20 EXTRA!  
(see details below)

Comprising the Amiga 600 computer with 1 Mb RAM, 3.5 inch 1 Mb floppy disk drive PLUS mouse, manuals, Workbench 2.0, all connections to your TV set, and the following FREE software:

- MICROPROSE GRAND PRIX
- SILLY PUTTY
- PUSHOVER
- DELUXE PAINT III

**all for £319.95 inc.**

..... and you can add even more games or accessories with our exclusive added value packs detailed lower down this page.....

# NEW!

ADD A  
**ZOO**  
PACK  
FOR ONLY  
£20 EXTRA!  
(see details below)

## AMIGA 1200

### THE NEXT GENERATION AMIGA

- True 32 bit computer with a 68020 processor running at a blistering 14Mhz, 5 x faster than previous Amiga's!
- 2Mb of 32 bit memory expandable via smart card slot
- New AA graphics chips give maximum 262,000 colours on screen from a palette of 16.9 million!
- Styled similar to Amiga 600, but includes numeric keypad
- Compatibility mode for existing Amiga programs, whilst new releases will feature Amiga 1200 enhancements
- Includes new Workbench 3.0 operating system

**Amiga 1200, only £369.95 inc.**

## AMIGA 600 EPIC & LANGUAGE LAB PACK

Comprising the Amiga 600 computer with 1 Mb RAM, 20 Mb hard disk drive, 1 Mb 3.5 inch floppy disk drive, PLUS mouse, manuals, Workbench 2.0, all connections to your TV set and the following free software:

- EPIC ● MYTH ● ROME
- TRIVIAL PURSUIT (in 3 languages)
- DELUXE PAINT III (painting package)
- AMIGA TEXT (Word Processor)
- FIVE LANGUAGE DICTIONARY



**all for £449.95 inc.**

..... and you can add more value, either games or accessories, with our packs detailed below.....

## AMIGA 1500 PACK

Comprising the Amiga 1500 computer with separate system unit and detachable keyboard, 1Mb RAM and two 3.5 inch disk drives, nine internal expansion slots, Workbench 2.0 and Kickstart 2.0, and the following free software:

- THE WORKS Platinum Edition (Word Processor, Spreadsheet, Database)
- HOME ACCOUNTS ● DELUXE PAINT III
- ELF ● TOKI ● PUZZNIC ● GET THE MOST OUT OF YOUR AMIGA BOOK

**all for £539.95 inc.**

## AMIGA 3000

Comprising the Amiga 3000 computer with separate system unit and detachable keyboard, fast 25Mhz processor speed, 2Mb RAM and one 3.5 inch disk drive, latest version 2.0 machines, available with the following hard drives:

- 52Mb hard drive £1299.95**
- 105Mb hard drive £1479.95**
- 1935 SVGA monitor £259.95**
- 1960 multisync monitor £419.95**

## AMIGA 600 DELUXE PAINT & GAME PACK

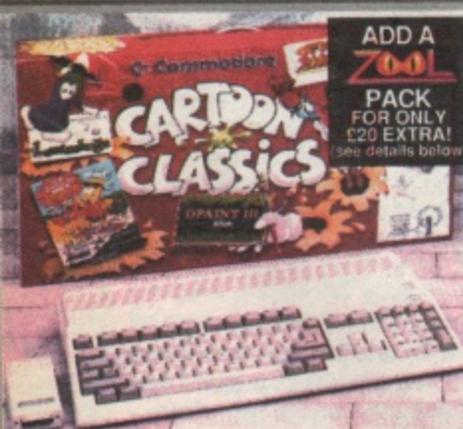
Complete Amiga 600 computer, with 1 Mb RAM, 3.5 disk drive, one game (normally Lemmings) and Deluxe Paint III. **£269.95 inc.**

## AMIGA 4000 MULTI-MEDIA SYSTEM

New awesome multi-media platform featuring 68040 32 bit processor running at 25Mhz, new AA chipset with 16.9 million colours, 6Mb RAM and high density 3.5 inch disk drive, latest Workbench 3.0 operating system

- A4000 40Mb HD £1999.95**
- A4000 120Mb HD £2199.95**

## AMIGA 500+ CARTOON CLASSICS PACK



ADD A  
**ZOO**  
PACK  
FOR ONLY  
£20 EXTRA!  
(see details below)

Comprising the Amiga 500 plus computer with 1 Mb RAM, 18 key numeric keypad 1 Mb 3.5 inch floppy disk drive, PLUS mouse, manuals, Workbench 2.0, all connections to your TV set and the following free software:

- LEMMINGS
- THE SIMPSONS
- CAPTAIN PLANET
- DELUXE PAINT III

**all for £269.95 inc.**

..... and you can add even more games or accessories with our exclusive added value packs detailed below.....

## CDTV ENTRY PACK

CDTV player complete with remote controller, plays audio CD's, CD audio plus graphics disks, and Amiga interactive titles, comes complete with the following software:

- WELCOME DISK
- HUTCHINSONS ENCYCLOPAEDIA
- LEMMINGS (the award winning game)

**all for £369.95 inc.**

## AMIGA CDTV PACK

### MULTI-MEDIA SYSTEM

Combination of the CDTV and an Amiga compatible computer including CDTV player, black Amiga keyboard, infra-red mouse, 3.5 inch black Amiga disk drive, Workbench disks and remote controller

**all for £469.95 inc.**

.....ADD MORE GAMES, MEMORY OR ACCESSORIES WITH OUR VALUE ADDED PACKS!

### ZOO PACK

- Includes:
- ZOO - 97% rated AMIGA COMPUTING
  - STRIKER - 94% rated CD AMIGA
  - PINBALL DREAMS - 94% rated AUI
  - TRANWRITE - premier word processor ...worth over £127 in total!

**ONLY £20 EXTRA!**

### AWARD WINNERS PACK

- Includes four award winning games:
- KICK OFF 2 ● PIPEMANIA
  - POPULOUS ● SPACE ACE
- ...worth over £122 in total!

**ONLY £10 EXTRA!**

### PHOTON PAINT

(THE 4096 colour painting program)

### + GFA BASIC

(essential for writing your own programs)

**ONLY £10 EXTRA!**

### ACCESSORIES PACK

Essential extra's including Zipstick Super Pro joystick, 10 blank 3.5 inch disks, lockable 40 capacity disk box, high quality mouse mat and dust cover

**ONLY £20 EXTRA!**

### EXTRA 1Mb RAM

for  
A500  
**ADD £30**  
or A600  
**ADD £35**

# FUTURETECH

Orderline & enquiries telephone (0908) 211665 open 7 days a week 9am-7pm

.....AND WE DELIVER FREE, DIRECT TO YOUR DOOR!

## PHILIPS 8833 MKII COLOUR MONITOR



The best selling monitor for the Amiga giving a crystal clear colour display together with fantastic stereo sound!

- FREE LOTUS TURBO 2 GAME
- FREE AMIGA CABLE
- 12 MONTHS IN-HOME SERVICE
- OFFICIAL UK PRODUCT

**all for £179.95 inc.**

tilt & swivel stand £10.95  
dust cover £3.95

## PRINTERS



All printers include ribbons & Amiga cable!

Citizen 120D 9 pin mono	£109.95
Citizen SWIFT 9 pin colour	£169.95
Citizen SWIFT 200 24 pin mono	£194.95
Citizen SWIFT 200 24 pin colour	£214.95
Citizen SWIFT 240 24 pin mono	£244.95
Citizen SWIFT 240 24 pin colour	£264.95

Star LC20 9 pin mono	£119.95
NEW! Star LC100 9 pin colour	£149.95
Star LC200 9 pin colour	£169.95
NEW! Star LC24-100 24 pin mono	£184.95
Star LC24-200 24 pin mono	£199.95
Star LC24-200 24 pin colour	£239.95
Star XB24-200 24 pin colour	£359.95
Star SJ48 inkjet	£194.95
Star Laserjet 4 laser	£699.95
Star Laserjet 4 postscript laser	£949.95

Canon BJ10ex inkjet	£219.95
Canon BJ20ex inkjet inc. s-feeder	£309.95
Canon BJ300 inkjet	£369.95
Canon BJ330 wide carriage inkjet	£489.95

HP Deskjet 500 mono inkjet	£324.95
HP Deskjet 500 colour inkjet	£449.95

### Sheet Feeders

Citizen SWIFT manual sheet feeder	££27.99
Citizen SWIFT auto sheet feeder	£74.99

Star LC20 auto sheet feeder	£57.99
Star LC100 auto sheet feeder	£59.99
Star LC200 auto sheet feeder	£59.99
Star LC24-100 auto sheet feeder	£62.99
Star LC24-200 auto sheet feeder	£62.99
Star SJ48 auto sheet feeder	£49.99

Canon BJ10ex auto sheet feeder	£49.99
--------------------------------	--------

GENUINE RIBBONS	MONO		COLOUR	
	one £	six £	one £	six £
Citizen 120D	3.95	20.95	-	-
Citizen SWIFT series	4.45	21.95	15.95	92.95
Star LC10, LC20, LC100	4.25	22.95	5.45	30.95
Star LC200	5.45	30.95	11.95	63.95
Star LC24-200	6.45	36.95	12.45	67.95
Star SJ48, Canon BJ	15.45	89.95	-	-
HP Deskjet	21.45	125.95	25.45	149.95

## HARD DRIVES

GVP Hard Drive 8 for A500 & A500 plus	52Mb drive £	120Mb drive £
with no RAM fitted	329.99	429.99
with 2Mb RAM fitted	369.99	469.99
with 4Mb RAM fitted	409.99	509.99
with 8Mb RAM fitted	489.99	589.99

GVP A530 COMBO, a hard drive and 68030 accelerator for the A500 & plus	52Mb drive £	120Mb drive £
with 1Mb RAM fitted	659.99	759.99
with 2Mb RAM fitted	699.99	799.99
with 4Mb RAM fitted	799.99	899.99
with 8Mb RAM fitted	979.99	1039.99

68882 maths co-pro for A530	£219.95
PC 286 emulator for GVP HD 8	£189.95

GVP hard card 8, a combined hard drive and RAM board for the A1500 & A2000	52Mb drive £	120Mb drive £
with no RAM fitted	279.99	409.99
with 2Mb RAM fitted	319.99	449.99
with 4Mb RAM fitted	359.99	489.99
with 8Mb RAM fitted	439.99	569.99

## CDTV ROM DRIVE

Allows your Amiga to play CDTV titles and music CD's. Models for 500+/600/1200 **only £269.99**

## FLOPPY DRIVES

Cumana 3.5 inch 1Mb drive	£49.95
Roctec roclite 3.5 inch 1Mb drive	£59.95
Power PC880E 3.5 inch 1Mb drive	£47.95
Power PC880B 3.5 plus BLITZ	£57.95
Power PC880B 3.5 plus X-Copy	£72.95

## MEMORY

512K RAM exp. for A500 & plus	£17.95
512K RAM & clock exp. for A500	£22.95
1Mb RAM exp. for A500 plus	£34.95
1Mb RAM exp. for A600	£32.95
1Mb RAM & clock exp. A600	£37.95
2Mb RAM smartcard A600 & 1200	£114.95
4Mb RAM smartcard A600 & 1200	£174.95

## SIMM BOARDS

1Mb SIMM suitable for GVP HD8 etc	£21.99
4Mb SIMM suitable for GVP HD8 etc	£89.99
1Mb 32bit SIMM for GVP Combo etc	£51.99
4Mb 32bit SIMM for GVP Combo etc	£151.99

## ROMS & SHARER

Kickstart 1.3 ROM	£23.99
Kickstart 2.0 ROM	£34.99
Keyboard switchable ROM sharer A500	£16.99
New! A600 ROM sharer	£28.99
Official Commodore V2.0 upgrade kit, inc. V2 ROM, V2.0 disks & manuals	£79.99

## CUSTOM CHIPS

GIA 8520A I/O chip	£7.99
Super Denise custom chip	£21.99
Fatter Agnus 8372A custom chip	£30.99

## SCANNERS

Power B&W scanner, 64 greyscales, up to 400 dpi, editing software inc.	£94.99
New! Power colour scanner, 4096 colours, up to 400 dpi, software inc.	£229.99

## MICE, TRACKBALLS

Naksha upgrade mouse inc. freebies	£23.99
Squik quality replacement mouse	£11.99
Golden Image mega mouse	£12.99
Golden Image crystal trackball	£36.99
Zydec trackball	£29.99
High quality 8mm mouse mat	£3.49

## 3.5 DISKS, BOXES

10 3.5 1Mb bulk 100% certified	£4.95
25 3.5 1Mb bulk 100% certified	£10.95
50 3.5 1Mb bulk 100% certified	£19.95
100 3.5 1Mb bulk 100% certified	£37.95
500 3.5 1Mb bulk 100% certified	£174.95
Box of 10 branded TDK 3.5 1Mb	£7.95
Box of 50 branded TDK 3.5 1Mb	£37.25
Box of 100 branded TDK 3.5 1Mb	£69.95
10 capacity 3.5 disk box	£1.49
40 capacity 3.5 disk box - lockable	£2.95
80 capacity 3.5 disk box - lockable	£4.95
500 3.5 disk labels	£5.95
1000 3.5 disk labels	£8.95

## JOYSTICKS

Quickshot II Turbo	£8.95
Quickjoy Jetfighter	£10.95
Quickjoy Topstar	£17.95
Quickjoy Superboard	£16.95
Zipstick Super Pro autofire	£10.95
Competition Pro autofire, burstfire	£12.95
Voltmace Delta 3A analogue	£7.95

## CONTROL CENTRES

View centre, monitor stand only:	
A500 & A500 plus version	£24.95
A600 version	£20.95
Control Centre, monitor stand & shelf:	
A500 & A500 plus version	£39.95
A600 version	£34.95
Super Control Centre, monitor stand & two shelves:	
A500 & A500 plus version	£54.95
A600 version	£49.95

## We offer you

- Free delivery in the UK
- All prices include VAT
- Price match
- Computerised ordering
- Staff with 10yrs experience
- Commodore products
- Free catalogues
- 12 month warranty on all products (in-home service on Amiga's and Philips monitors)
- Free collection of product in warranty period, if necessary

## How to order

Call our orderline shown below if you have a credit or debit card, or if you have any queries before you purchase. Be ready to quote your card number, expiry date and your name, address and contact telephone number.

OR, send your order into us at the address shown below, together with your personal cheque or a bank or building society draft made payable to, Futuretech Consumer Electronics Ltd. Please state your requirements clearly, along with your name, address and telephone number.

## FUTURETECH

Unit 3, Fredericka  
Caldecote Street  
MILTON KEYNES  
MK16 0DD

Telephone (0908) 211665  
Fax (0908) 217984



Prices and specifications are subject to change without prior notification. E & O E. Goods are sold subject to availability and are not supplied on a trial basis. Personal cheques require 7 days to clear. Futuretech is Futuretech Consumer Electronics Ltd (registered in England). All trademarks acknowledged.

CALL US NOW AND ASK FOR YOUR FREE AMIGA CATALOGUE!

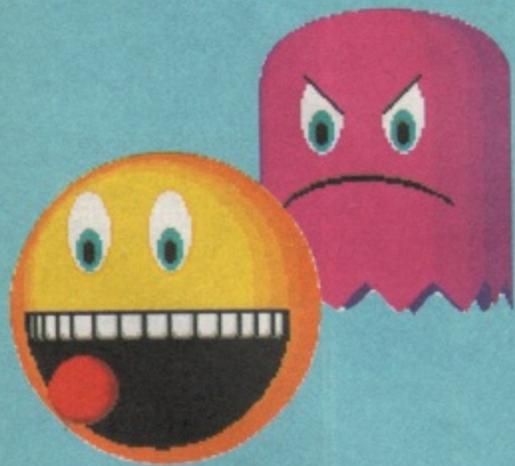
# FUTURETECH

Orderline & enquiries telephone (0908) 211665 open 7 days a week 9am-7pm

# GAMES PROGRAMMING MADE EASY

Even with all those ghosts chasing after our PacMan, he's still untouchable. Until now, that is... Dave Smithson shows you how to add collision detection to our special CU AMIGA PacMan game.

PART  
**5**



Over the past few months, our PacMan game has been growing at a phenomenal rate – already we've got PacMan wandering around a maze pursued by three Pac-hungry ghosts. At the moment though, it still leaves a lot to be desired.

### POWER PILL PUSHER

Adding a collision detection routine to our game isn't as complicated as it may sound. AMOS already provides us with all the commands we need to keep track of any collisions that might take place. These commands allow you to check whether a sprite or bob has collided with



AMOS

The power pills that are scattered around the game screen are found simply by checking the contents of the MapData() array.

Game Screen	MapData()																																				
	<table border="1"> <tr><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr> <tr><td>2</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr> <tr><td>2</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td></tr> <tr><td>2</td><td>4</td><td>3</td><td>2</td><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td><td>3</td><td>1</td><td>1</td><td>2</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table>	2	2	2	2	2	2	2	3	3	3	3	3	2	3	2	2	2	2	2	4	3	2	1	1	2	2	3	1	1	2	2	2	2	2	2	2
2	2	2	2	2	2																																
2	3	3	3	3	3																																
2	3	2	2	2	2																																
2	4	3	2	1	1																																
2	2	3	1	1	2																																
2	2	2	2	2	2																																

either another sprite, bob or even the background. Our game still needs to be quite intelligent though – after all, PacMan doesn't always come off worse if he does collide with a ghost. If, for example, he's eaten a power pill, then he'll be able to chomp his way through the ghosts instead. Under normal circumstances, however, PacMan will lose a life if he comes into contact with his ectoplasmic pursuers.

Before we can code a collision detection routine, we need to add in a routine that allows PacMan to pick up the four power pills scattered around the screen. We don't need to use AMOS's collision detection routines to handle this simply because their position is held within the MapData() array that we used to draw up the map and to handle the movement of both PacMan and the ghosts. All we need to do is to call a short routine that continuously checks to see whether PacMan is standing on a floor block with a power pill.

Check back to the issue in which we discussed the PacMan movement routine. As you may remember, that routine called a procedure called CHECKFLOOR that was responsible for removing the dots and power pills scattered around the maze as PacMan moved over them. What you may not have realised is that this code also

### LEVEL HEADED

So far our game has only one rather basic level, but it is possible to make the game progressively harder simply by changing the values of certain variables. You could, for example, modify the ghost movement routine that we published last month so that the speed of the ghosts is controlled by a single variable. As the player progresses through the game, the ghosts could be accelerated by increasing the value of this single variable. There's only so far you can take this though – if you have the ghosts running around the maze 10 times faster than PacMan, he's hardly going to last long regardless of how skilled the player is.

Another possibility is to increase the number of ghosts roaming around the maze. Once again, this would be fairly simple – as the ghost routine that we published last month simply processes a set of three data structures using the loop, all you need to do is to turn on an extra ghost bob and then increase the number of times that the ghost movement routine loops. As it is, the routine loops three times – by increasing the number of loops, the extra bob would automatically be handled with virtually no changes having to be made to the code. This is another good reason why you should take advantage of data structures whenever you can.



You could even vary the map data itself by storing several maps in memory at once. Because all the various routines that move PacMan and the ghosts around the maze work on this map data, it would automatically work with any new map data that you generate. Once again, this too just goes to demonstrate how important it is to plan your code before you write it – if we had written a routine that was 'hard coded' to work with just one screen layout, it would have been virtually impossible to add further levels!

Left: Our game can be made progressively harder by increasing the speed of ghosts, the number of ghosts wandering around the maze and even the maze itself!

### TABLE 1

```

Procedure CHECKFLOOR
  If MAPDATA (PACY, PACX) =3
    Paste Icon(PACX*16)+8, (PACY*16)+8,1
    MAPDATA (PACY, PACX) =1
    Inc PILLS
    SCORE=SCORE+10
    Sam Play 1
  End If
  If MAPDATA (PACY, PACX) =4
    Paste Icon(PACX*16)+8, (PACY*16)+8,1
    MAPDATA (PACY, PACX) =1
    SCORE=SCORE+100
    PPILL=1 : Timer=0
    Sam Play 1
    Sam Play 2
  End If
End Proc
    
```

included everything we need to handle the power pills! See Table 1.

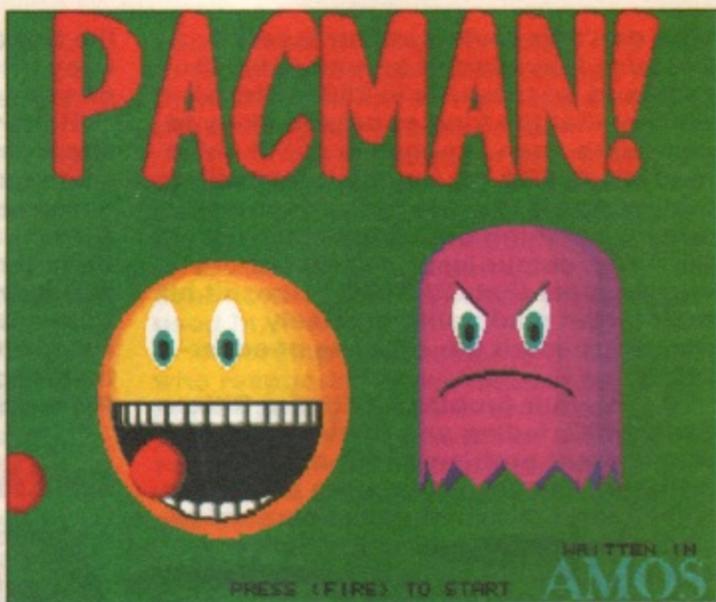
The first half of the `_CHECKFLOOR` routine simply checks whether the floor tile that PacMan has walked onto contains a value of 3 (denoting a standard 'dot'). This obviously has no effect on PacMan. The second half, however, is far more interesting. If the floor tile that PacMan walks onto contains a value of 4 (denoting a power pill), then a flag variable called 'PPILL' is set to 1 and the AMOS timer is reset to zero. As soon as this is detected, PacMan becomes invincible.

### COLLISION DECISION

This invincibility must be taken into account once we move onto the collision detection routine. This little procedure is called within the main game loop (the section of code that calls the PacMan and Ghost movement procedures). See the listing in Table 2.

The `_CHECKCOLLIDE` routine does a lot more than just monitor any collisions between PacMan and the ghosts. It also keeps track of the power pills that PacMan can pick up (more on this later though). So how does this routine work? Well, it's actually very simple indeed. It starts by calling the AMOS 'Bob Col(0)' command that essentially checks to see whether blitter object 0 (PacMan) has collided with any of the other bobs on the screen. As the only other bobs are all ghosts, we can take it for granted that if a value of -1 is returned, then PacMan has collided with a ghost.

Unfortunately though, the `Bob Col()` command



Adding a title page to your AMOS game can vastly improve its presentation. Just about any standard IFF paint package can be used.

doesn't tell us exactly which Bob PacMan has collided with. In order to do this, we need to check the contents of the array `Col()`. This hasn't been defined within our program because it is what is known as a 'reversed variable' - that is, it's a variable that AMOS uses itself. In order to check this array, we run through a loop that checks the three ghosts to see if they too have been in collision with PacMan. This is done by reading the value of the `Col()` array and if a value of -1 is returned, then we've got our ghost. The ghost's number is then stored into a variable called `GHOSTCOLLIDE`.

The routine then moves on to the section of code that decides whether PacMan or the ghost that he collided with came out worse. The first thing to do then is to check the status of the `PPILL` flag - if a value of 1 is returned, then we know that PacMan has recently swallowed a power pill.

What we don't know, however, is whether the pill still has an effect on him. We therefore check the timer to see whether it is greater than 500 (don't forget that 50 = 1 second, so 500 = 10 seconds). If it is, PacMan is no longer invincible so the `PPILL` variable is set to 0 and PacMan then bites the dust. If the timer is less than 500 though, the ghost comes out worse and a short procedure that kills off the ghost is called and the player's score is increased by 100.

If the `PPILL` variable is not set to 1, then we know for a fact that PacMan will lose if a collision took place. The value of the `GHOSTCOLLIDE` variable is checked and if it is greater than 0, PacMan loses a life.

### SKELETON CREW

Our game is now complete in a skeleton form, but there are a few extra routines that still need to be added to give it that professional look - a high score table, a title page and even a title tune. The high score routine is documented below, but adding the title page and music is simply a matter of booting up *DPaint* and your favourite *Sound Tracker* (I personally use *ProTracker*, but just about any *Tracker* clone will do the job). Once all that's done, your game is complete. **CU**

## NEXT MONTH

Next month we'll be continuing our look at the ancient art of AMOS games programming with a new type of game altogether - the good old shoot 'em up. If you've ever wanted to blast baddies from the skies, then stay tuned. See you next month!

### HIGH SCORE TABLES

One of the most important routines that you'll find in virtually every game is the good old high score table that keeps track of the best five or so scores. Surprisingly though, actually writing a high score table routine isn't quite as easy as it may seem - if you don't believe me, why not have a go? If you do fail miserably, then here's all the code you need arranged as a very handy procedure that can be plopped straight into just about any game. Although it handles a high score very well indeed, its presentation is very basic indeed, so it's up to you to enhance it so that it looks pleasing.

The code itself is fairly simple. All it does is to create two arrays - one for the high scores and another for the player's names. The task of maintaining these arrays is handled by a short procedure called `HIGHSCORE` that takes a score as its input and then checks to see whether this score is higher than the last score in the table. If it is, it then searches through the table to find the position of the score within the table. All the scores directly below this score are then shifted down by one position (therefore causing the bottom score to drop off the table) and the new score is inserted into the gap that is remaining.

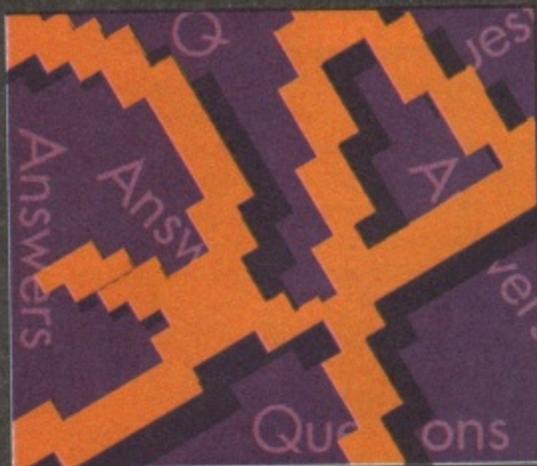
I've also included a short section of code at the beginning that demonstrates this routine. This isn't actually needed, so chop it out once you decide to include it in your game. All that is really needed are the variable definitions at the beginning (these should be placed at the start of your game), the loop that fills the array with the default values and the `highscore` procedure itself.

```
Dim HISCORES(10), HISNAMES$(10)
Global HISCORES(), HISNAMES$()
For C = 0 to 9
  Read HISCORE(C), HISNAMES(C)
Next C
Data 10000, "Dave Smithson"
Data 9000, "Dan Slingsby"
Data 8000, "Nick Veitch"
Data 7000, "Jonathan Sloan"
Data 6000, "Heather Turley"
Data 5000, "Tony Horgan"
Data 4000, "Mat Broomfield"
Data 3000, "John Kennedy"
Data 2000, "Kenny Grant"
Data 1000, "CU Amiga"
FMAT$=" ~~~~~ "
Do
  Input "Enter Score: "; SCORE
  HISCORE[SCORE]
  For C = 0 To 9
    Print Using FMAT$; HISNAMES(C), HISCORE(C)
  Next C
Loop
Rem *** Basic HiScore Table
Procedure _HISCORE[SCORE]
  If SCORE>HISCORES(9)
    Print "Congratulations!"
    Input "Enter name - "; NMES$
    For C=9 To 0 Step -1
      If SCORE>HISCORES(C)
        POS=C
      End If
    Next C
    For C=8 To POS Step -1
      HISCORES(C+1)=HISCORES(C)
      HISNAMES$(C+1)=HISNAMES$(C)
    Next C
    HISCORES(POS)=SCORE
    HISNAMES$(POS)=NMES$
  End If
End Proc
```

TABLE 2

```
Procedure _CHECKCOLLIDE
  GHOSTCOLLIDE=0
  STATUS=Bob Col(0)
  If STATUS=-1
    For A=1 To 3
      GHOSTSTATUS=Col(A)
      If GHOSTSTATUS=-1
        GHOSTCOLLIDE=A
      End If
    Next A
  End If
Next C

Rem *** Monitor Power Pills
If PPILL=1
  If Timer>500
    PPILL=0
    If GHOSTCOLLIDE>0
      _LOSELIFE
    End If
  Else
    If GHOSTCOLLIDE>0
      _KILLGHOST[GHOSTCOLLIDE]
      SCORE=SCORE+100
    End If
  End If
Else
  If GHOSTCOLLIDE>0
    _LOSELIFE
  End If
End If
End Proc
```



Once more unto the breach... Mat Broomfield attacks that ever growing mailbag of reader's queries. If you've got a problem you'll find the answer here.

### COLOUR PRINTER



I consider myself to be a professional/semi-professional DTP/WP user. I recently purchased the Citizen Swift 240C as I'd heard it was an excellent colour printer. Having printed out a couple of full colour pages, I felt rather let down by the results. I wasn't expecting bubble-jet or laser quality but I'm far from happy with the output. I recently used *Wordworth 2* to print 10 colour pages, and although the first page was quite good, by the last one the colours were both faded and muddy and there was a great deal of colour contamination, particularly with the yellows.

I know that you warned about this problem, and you may wonder why I bought a dot matrix printer in the first place. The reason (apart from price) was that I have seen no colour bubble jets (except the HP Deskjet 550C) or laser printers advertised in your magazine. I planned to buy the 550C, but although my contamination problems would stop, a resolution of 300x300 and bubble jet technology isn't quite what I'm looking for.

Are Hewlett Packard planning to bring out a 600C with a resolution of 360x360 or possibly higher? Is it possible to buy a colour laser for the Amiga? Why haven't you covered them in CU AMIGA as I'm sure that many people treat the Amiga as a top DTP computer, and consequently require this level of performance.

I would very much like to see Ricoh producing a colour laser printer for the Amiga, especially considering the fact that they make perhaps the finest black and white laser. Is this a possibility?

I have heard about the Canon BJC800. How do you rate this printer? Are there any colour laser printers available with an Amiga driver disk? Are there any particular ones that you can recommend?  
Nathan White, Walsall, West Midlands

Why don't we review colour lasers? Because they start at around £10,000 each and go upwards in £5000 steps! We feel that the kind of person likely to commit to such expense is not likely to read CU AMIGA for buying information; they're going to go to the showroom and try the thing out for themselves. Similarly, colour laser manufacturers may suspect that CU AMIGA doesn't hit their target readership precisely enough to merit the expense of advertising.

As for your problems with the Citizen Swift 240C, fading and contamination are inherent problems with dot matrix printers. Any decent printing program will attempt to minimise the contamination effect by outputting the lighter colours first, but eventually the ribbon is bound to lose its sparkle.

Your point about bubble jet resolution and technology doesn't hold water either I'm afraid. The Hewlett Packard Deskjet 550C is a lovely little printer and at 300x300 DPI it has the same resolution as most laser printers. I would further state that bubble jet technology is close to that found in mono laser printers because the manufacturers are striving for high-quality resolution and fast output for a low operating cost in both cases. The major difference is that a laser printer is seen as a high throughput workhorse and needs a very durable engine, whereas colour bubble jets are not designed to take such constant punishment.

I think it's unlikely that HP will release a 600C with the specifications you mention, when their existing machines are more than adequate.

When I first saw Canon's BJC800, I liked it very much as it produced very solid areas of colour. Since its release however, HP brought out the 550C which in my opinion is every bit as good for £1500 less!

I don't know if Ricoh plan to release a colour laser, but it seems likely that most international laser engine manufacturers will want to explore this route.

There's one myth that I must dispel: except in the case of computers that have obscure interfaces such as the Apple Mac, ZX Spectrum or CBM 64, printers are not made for specific machines. Therefore a laser printer that works on the PC will usually work on the Amiga assuming you can locate a compatible driver.

The best colour printer that I've ever used on the Amiga was the Hewlett Packard XL300, a thermal fixing bubble jet that costs £1 a page to print!

### A1200 DRIVER



The manual does help. Read chapter 9 of the Workbench manual. It tells you at

I own an A1200 and have been printing from *Deluxe Paint 4* with great success.

I now want to alter the printer preference editor, but do not have any printer drivers in the scroll

gadget. The manual doesn't help at all.  
Rod Sumpter, Birmingham

The manual does help. Read chapter 9 of the Workbench manual. It tells you at

the bottom of the very first page how to copy printer drivers to the correct place on your disk.

However, the fact that you've been successfully printing from *D-Paint* leads me to believe that your preferences are already correctly set (on your *D-Paint* disk at least). If you load *D-Paint* through Workbench, I suggest you leave well enough alone until you understand chapter 9. If you load *D-Paint* without first loading Workbench, then copy the preferences on the *D-Paint* disk to your Workbench disk.

### CHEAP DRIVE



I own an A500+ with 2Mb of RAM and a second drive. Currently I'm thinking about buying a hard drive but my funds are limited. A friend informed me that it is possible to connect an IDE to my expansion port. Please could you tell me if this is true, and if so what I would need and how much it would cost?  
Neal Wilson, Haxby, York

You can add an IDE drive to your Amiga, but it's not really a cheap alternative. There is an interface called ADD-IDE (available from Silica Systems on 081 309 1111) which allows you to connect the drive. The trouble is IDE drives are slower and more restricting to use so given that you're going to add a drive I would personally opt for a SCSI device which gives you far more flexibility in the future. There are a number of SCSI drives (including my favourite - the GVP HD8+) which cost £250 or less. Although I would only buy a second-hand drive as a last resort, you may be able to find one for £150 or less. Why would I only buy a second-hand drive as a last resort? Because there are numerous hard-to-detect things that can go wrong with them, and you may not spot potential problems when you buy. Furthermore, the surface of the drive is not indestructible - it eventually wears out, and you can never be sure how much use a second-hand drive has had.

### BIZARRE KEYMAP



I bought an Amiga 1200 in December of last year and ever since then I have been unable to set up the keyboard correctly. I've followed the instructions in the manual, visited dealers for advice (three of whom found the same problems with their demonstration model). I even tried ringing Commodore's technical help line. They wouldn't help 'cause I wasn't a dealer and the boss is never available for complaints. No matter what I do I end up with an American keyboard. The machine was bought from a reputable dealer and further checks confirmed that the machine is a genuine UK version. I've enclosed a separate sheet outlining the steps I've taken.

Can you answer the following questions:  
1. Have others experienced the same problems?

2. Have I been supplied with the wrong master disks?
3. Where do I go from here? Names and addresses please.
4. Why did I buy an Amiga when I've experienced problems with three other Commodore computers (C64, C64+ and A500)?

I really hope that you can help because I'm on my own up here. There really seems to be a dearth of A1200 users in Yorkshire. All the other Amiga mags that I've written to (nicely I might add) have chosen not to help or print my letter.  
**David Butler, Wakefield, W. Yorks**

1. Not that I've heard.
2. I doubt it.
3. Read on...
4. Because it's the best-value cool graphics hot-gamin' mega-musical MIDI maestro DTPowerful son of a gun you ever saw!!!

For once, I can sympathise with our rival magazines who chose not to answer your query because by what you've said in your attached sheet, there's absolutely no reason why the GB keymap doesn't work. Steps 11, 10(!) and 12 were unnecessary extras, but you've followed the correct procedure and a selection of keymaps should be available in the Input editor list.

I don't want to state the obvious, but I assume that you are aware that when you select the 'GB' keymap, in the Input Editor this appears as 'British'?

Again, not wishing to insult your intelligence, are you absolutely certain that you're copying the keymap to the correct drawer. I say this because whilst I was checking your procedure, I noticed that in the Storage window the Keymaps directory is at the bottom, with printers above it, but in the Workbench:Devs directory these positions are reversed. Consequently, I copied the keymap to the wrong window the first time I tried.

If neither of these work, then I'm at as much of a loss as you are. I suggest you take your computer back to the shop you bought it from (well the disks at least) and insist that they show you how to make the relevant changes or you'll demand an exchange.

As you've already discovered, Commodore's so-called technical help lines are an utter waste of time, however Silica Systems run free technical help on 081 309 1111. By the way, if our letters are anything to go by, there are loads of 1200 owners in your part of the world and just about every other part of Britain!

## UPPITY AMSTRAD



I have inherited an Amstrad DMP 2000 printer. It works fine on my A500+ except for the pound (£) and hash (#) signs which both print as P\*. Could you please tell me the correct pin assignments as I believe that this is where the fault lies.

**S. A. Sullivan, Estover, Plymouth**

I don't think that your problem has anything to do with pin assignments. I think that you haven't told the printer to use an English character set.

The printer is capable of printing characters from more than half a dozen different alphabets. By default, it's set up to print American characters, but before you can use it you need to tell it which country it will be used in.

According to Paul Moore of Glasgow, who responded to my request for printer configuration information last year, there are two banks of DIP switches on or in the printer and they need to be set as follows for English characters:

**BANK 1** – All switches off except number 3.

**BANK 2** – Numbers 1, 5, 6, 7 and 10 on, the rest off.

## ARABIC AMIGA



I am a student learning Arabic (it looked good in the prospectus, honest!) and I'm in desperate need of the following:

1. An Arabic/English word processor;
2. An Arabic/English database; or
3. A database capable of handling user-defined characters/fonts.

I did think that for number three I could design a font of half Arabic, half English characters to use in the database, but I haven't a clue how to do it. Can you help? Can any of your readers help?  
**John Rudolf, Leeds**

Unfortunately, you're right out of luck, John. To the best of my knowledge, not one of the things that you've asked for exist on the Amiga.

If you own a DTP package, there are modern and ancient Hebrew fonts available if they're any use? But I suspect not. Alternatively, you could design your own fonts with *Typesmith* or some other similar font designer.

I suspect that the Word Perfect Corporation produce an Arabic word processor, but unfortunately they only got as far as 4.12 of the English version on the Amiga.

You'll either need a PC or a PC emulator in order to access their foreign language WPs. Contact the Word Perfect Corporation on 0932 850500.

As for Arabic databases, I doubt that you'll find such a program on any computer outside the Middle East, and even then, they're only likely to be available on PCs.

If you can find out which font an ordinary database uses, you could substitute their version for your own one provided you give it the same name. Then you'll need an Amiga bit-map font editor to create the appropriate characters. Two such programs are *Font Grabber* from Genisoft and *Calligrapher* from First Choice, call them on 0532 319444.

## DTP POSERS



I'm going to get into desk top publishing but being rather new to the computer scene, I must admit that I've tried in vain to understand what I'll need to buy to get started. Hopefully you can clarify matters...

1. Is there an inexpensive DTP program that lets me use an unlimited number of fonts?
2. I've noticed that various PD outlets advertise clip art. Is this a worthwhile source of material for DTP use? How is it produced?
3. I was thinking of buying a scanner and a digitiser, but the bank manager will only allow me to get one at a time. Is it worth buying both or will one provide me with sufficient material?
4. I understand that DTP software can require more than my standard 1Mb Amiga. Is a hard drive the answer or is there an alternative choice that would work just as well if I had two disk drives? If not, can you recommend a hard drive as I don't understand which one to buy. They go on about 52Mb with 8Mb expansion. What does this mean and what size of hard drive would be most suitable?
5. Which should I buy first, the DTP program or the expansion required to run it? In other words can I work with the DTP program while I save up for the upgrades to my Amiga?

**Michael Ramsay, Forfar, Angus**

1. It depends what you mean by 'an unlimited number of fonts'. If you mean an unlimited number of different typefaces in a single document, then I believe they all do. The only restriction is the amount of memory available to you. If you mean an unlimited number of different font formats (such as Compugraphic, Type 1, Postscript, etc.) then no single package supports them all, but Softlogik's *Pagestream 2.2* comes closest.

Incidentally, it's extremely bad, typographically speaking, to change fonts too many times on a single page. I'd be surprised if you needed more than three or four fonts and bold/italic versions of them.

2. Clip art is like computer games. Some are great, and others are real dogs! On the whole, it's quite worthwhile, and it's cheap enough to take a chance on. It can be produced in one of three ways – it can be hand drawn, it can be scanned or it can be digitised. If the clip art is structured as opposed to bit-mapped, it produces better print-outs, especially when re-sized, but the images tend to be simpler.

3. Scanners are for digitising images from paper. Digitisers are for digitising images taken from a video signal. Scanners are ideal if you want to digitise a photograph or graphic or piece of line art. Scanners capable of producing black and white or grey images start under £100, and my favourite is the Alphascan Plus which can create 256 levels of grey.

Colour scanners tend to be very expensive to buy (£200+) and worth- >>

» while ones will cost upwards of £500. I'm rather dubious as to their value in all but 24-bit colour modes. To scan or digitise in 24-bit colour will require very large amounts of memory for all but the smallest of images.

Digitisers can be connected to video cameras and video players. They are ideal for digitising real world scenes or television images. Whilst they can be quite good at digitising photographs (with a suitable video camera), a scanner would produce a sharper image in such circumstances. A digitiser is certainly the more versatile (and entertaining) of the two pieces of hardware. For £99.95 you can buy Rombo's superb entry level Vidi-12 digitiser which is compatible with any Amiga and even supports the new AGA screen modes.

4. Even if you buy *Pagesetter 2* which works with your set-up, you'll soon run out of memory with only 1Mb, especially when you start using multiple fonts and graphics. If you can possibly afford a hard drive, it will make your life much easier, but at the very least you should purchase a couple of megabytes of extra memory. Apart from animation and 24-bit graphics work, DTP is probably one of the most memory intensive activities that you can do on your Amiga.

Ideally you should buy at least a 52Mb hard drive with 4Mb of extra RAM. This means that you will have 52Mb of disk storage space - equivalent to 59 floppy disks - and a total of 5Mb of memory.

As usual, my recommendation would be the GVP HD8+ hard drive, which you can buy for about £249.50.

It depends which DTP software you buy. If you go for *Pro Page*, you can't run it without a hard drive. At the moment, the *PageStream 2.2* shrink wrap pack represents incredible value for money at about £62 (a discount of £237 off its normal retail).

Personally, I like to get the most expensive kit out of the way first, and that will certainly be the expansions.

## ACTION REPLAYS



In recent adverts, Datal Electronics say that their Action Replay cartridge can, among other things, freeze any game and allow you to save that screen to be used in a paint package.

Is this correct and, if so, does the copy retain the original quality.

Michael Ramsay, Forfar, Angus

The advert is essentially correct. Action Replay plugs into the expansion port (where a hard drive would go if you have one). When you press the Freeze button, the cartridge interrupts the CPU and takes control of the computer. Theoretically, at this point you can save whatever screen was currently displayed. In practice this doesn't work with a lot of programs, particularly those that use sprites or bobs (such as many arcade games), or those that directly hit the coprocessor chip for colour

cycling effects, etc. AMOS screens also cause problems for some reason. The screens that can be grabbed are exact replicas of the originals, and thus retain all of their original quality.

## EMULATORS



I own an Amiga 1000 and I would like to ask a few questions about PC emulators.

1. What actually is a PC emulator?
  2. How much would it cost?
  3. What will I need to use it?
  4. Where can I get one from?
  5. Is there an Atari emulator as well?
- Christian Holland, Spilby, Lincs

A PC emulator is a device (usually a combination of software and hardware) which plugs into an Amiga and temporarily turns it into a PC. Most of them emulate slow 286 PCs although some emulate 386s. Unfortunately, due to the graphics capabilities of the non-AGA Amigas, most emulators are not capable of reproducing all of the PC's colour screen modes.

Try as I might, I couldn't find anyone who sells PC emulators for the A1000, which to be honest is more or less obsolete now anyway. Sorry, but isn't it about time you considered one of the newer Amigas? You can buy an A1200 for £400 and a second-hand A500+ for little more than £100!

## VIDEO VORACITY



Being a dedicated user of an expanded A500+ for post production video titling I have one major question about my possible future upgrades.

Presently I'm using an Electronic Design genlock to overlay titles onto video signals. With this set up I have several problems when using hi-res since this is flickery when output to a TV. I have to use a TV since my clients will watch the finished product on a standard TV (from VHS tape).

I've seen several reviews of the A4000 with its AGA chip set which can display resolutions up to 1280x512 in 256 colours out of a palette of 16.8 million. I've also read a lot about 24-bit graphic cards which, when connected to the desktop Amigas (A1500 upwards), can produce stunning effects.

The obvious question is, is a normal TV set capable of displaying all these colours and resolutions (24-bit and AGA) or are they useless?

Some additional questions: Does an *Opalvision* card exist for the A500+? Which is the best 24-bit card?

Dominic Cachia, Sliema, Malta

Because of the encoding of the PAL broadcast system, the images displayed are actually pseudo 18-bit. The actual screen resolution is only theoretical, because there is a great deal of channel crossover in an analogue system. Basically, your Amiga can at

present produce a greater resolution picture (in terms of pixels) and the AGA chipset will produce a comparable colour resolution. Some of the new screen modes will not be available if you are directly connected to a TV. Try putting your screen into an interlace mode, which may (perversely) cure your flicker problems on video.

There isn't an *Opalvision* card for the A500+ yet, but an adaptor has been promised to coincide with the release of *Opalvision 2*, which will work with both the A500 and A500+. So far as I know, the only current A500 compatible 24-bit card is the AV24 from Checkmate Digital.

There are some truly awesome 24-bit cards available for NTSC users, but on PAL machines the best broadcast quality solution is the Harlequin. If you just want a 24-bit display card the MacroSystem Retina is hard to beat. Both of these cards are available from Amiga Centre Scotland, on 089 687 583.

## PRO PRINT SERVICES



I use my A1200 for DTP work, and until now my humble 300 DPI laser printer has been more than adequate. However, I'm now hoping to move into full colour work and I don't

feel that even Hewlett Packard's high end colour bubble jets will produce sufficiently high quality results.

Can you suggest a way of outputting my *Professional Page* documents? Also, do you know of a cheaper alternative to the £600+ flat bed scanners for capturing 24-bit images?

Steven Booth, Hawksley

The logical answer to your first question is to use the services of a commercial printing bureau. Unless you want to mess about converting your files onto PC disks, you'll need to use a bureau that can handle Amiga files. BJ Print Services are just such a company, and they offer a range of output services ranging from 600 DPI mono laser prints to 24-bit colour at 2400 DPI.

For maximum economy, you'll need to supply your document in Postscript format including any fonts you've used. You'll find that they charge about £25 an hour for labour.

Co-incidentally, they also offer a full 24-bit scanning service for digitising your photographs.

Phone BJ on 0803 666003 or write to them at 19 Winsu Avenue, Paignton, Devon, TQ3 1QG.

## 1200 EXPANSIONS



I currently own an A1200 and I'm looking to expand. My problem is whether to stay with my A1200 and buy a hard drive, maths co-pro and memory, or sell my 1200, buy an A4000 '030

and take advantage of the faster processor. I use my computer for a variety of things other than games. Can you help me decide by answering the following questions:

1. Is the A1200 limited to 10Mb of memory or can this be increased by using bigger SIMM modules.
2. Are we likely to see Zorro slots and the like for the 1200?
3. I've heard that the processor on the 4000/'030 has an MMU but it has been disabled. Is this true?
4. Does a maths co-pro for the 4000 come on a separate board or is it just a chip that plugs into the CPU board?
5. I've noticed in your game reviews that when reviewing games, you also state which machines they are compatible with. Does the A4000 entry refer to the '030 or '040 version of the machine?
6. I have a few games that work on my A1200. If I upgrade to a 4000 will they still work, or will it only run 1200 specific games?

**Name and address supplied**

1. No, the A1200 is not limited to 10Mb of memory. Golden Image have just released a 9Mb expansion board (bringing the total to 11Mb). Microbotic's accelerator board lets you add up to 128Mb in a single (very expensive) SIMM module.

Incidentally, these SIMMS cannot be plugged straight into the A1200 - you'll need some kind of board to plug them into.

2. No, we won't see Zorro slots, the 1200 doesn't have the architecture to support them.
3. The 4000 includes the 68EC030 CPU. Apparently these chips are actually full 68030 chips whose MMUs failed at the final testing stage. Therefore, although in the physical sense the 4000's CPU does include an MMU, even if it weren't disabled, it wouldn't work anyway.
4. You can plug a maths co-pro directly into the 4000.
5. The '040 version.
6. Provided you only upgrade to a 4000 '030, your games should work. However, there are a number of programs that work on an '020/'030 processor which won't run on an '040.

**THE WRONG CHOICE**



I have recently bought an A1200 with an 80Mb hard disk drive. At first I thought it was the best buy I could ever get, but now I'm having second thoughts for a couple of reasons.

The disk drive on the A1200 only has a capacity of 880k which means less storage space on a disk. It seems that the A1200 is the only computer which has this small capacity as all others have high density drives. Can I replace the A1200 drive with a high density one?

Extra memory upgrades also seem to cost a bomb. For example, Power Computing's PC1204 4Mb expansion with clock and no FPU costs £185.95. Some people may be able to afford this, but my pocket doesn't stretch that far. Isn't there a cheaper way to expand the memory on a 1200? Even a 2Mb PCMCIA card costs a whopping £149.

After examining your comparison in the May edition, I feel that I have made a bad choice and would have been better off with

a 386 PC with which I would get a monitor as standard for the same amount as I paid for my 1200.

Tell me something to change my mind, and don't refer me to your comparison because it's that which has made me doubt the wisdom of my choice in the first place.

**Farrakh Chowdhry, Pentwyn, Cardiff**

The A1200 drive is, in fact, capable of formatting disks to a capacity of 901k if you use the Fast Filing System (FFS) format option. Furthermore, not all computers have high density drives, in fact some still use drives that only have a capacity of 360k.

In any case, although high density drives mean that you can store more on a single disk, you will find that these disks are considerably more expensive to buy.

I don't think that you can replace your existing internal drive with a high density one (it's certainly not possible to do so without invalidating your warranty), but Power Computing (tel: 0234 843388) produce a high density external drive which costs £129.95.

It's worth remembering, however, that high density drives can only be used to store your own data on as there are no Amiga programs available on high density disk. Power's drive is also capable of reading ordinary low density data as well, and will allow access to PC format high density disks on WB3 machines.

I agree, memory expansions do seem rather pricey, but the Power card that you're referring to was not a good example. For starters the card contains extra circuitry to run an optional FPU (maths co-pro) chip which would speed your A1200 up. It also comes with a clock as standard, so the price seems quite reasonable to me.

The cheapest way for you to add memory to your A1200 is in the form of a dedicated RAM-only card. This means that you don't pay for extra stuff that you don't actually need.

Of course, it's worth remembering that memory expansions on the A1200 are fast 32-bit RAM as opposed to the much cheaper 16-bit kind found in the older Amigas. Needless to say, this improved technology costs more!

As a matter of interest you can buy a 1Mb 32-bit expansion for £65.99 or a 2Mb 16-bit PCMCIA card for £114.99 from Phoenix Computer World. Phone them on 0532 350091.

**VIDI MAD**



I am considering buying the VIDI Amiga digitiser which was advertised in the June issue of CU AMIGA, but before I commit myself can you please answer a few questions?

Will it still work on a video recorder which has a terrible pause facility? I know that it is capable of capturing moving pictures but the quality must surely be better if they're paused. How did you do the *Star Trek* pics, moving or paused? Does the AGA version have better software,

because I'm only using an old A500?

I'm going to buy a 2Mb A500+ from Silica; will it still work with that set-up? Can I save pics in HAM mode to be edited in *Spectracolour Junior*? What about 64 colour for editing in *D-Paint*?

If I want to make a slideshow for PD release will I find it easy to do? What's the highest resolution that ViewLBM works with? Is there anything better?

Are all cables supplied with Vidi 12? Does the manual show you how to connect digitiser to video and is it easy to get to grips with? Does it plug into the mains because I don't have spare sockets?  
**Rizwan, Bradville, Milton Keynes**

Vidi 12 can only capture moving pictures in grey scale, not full colour. Full colour requires an image which is perfectly still for at least a second, therefore your video recorder will be no good. You could still digitise from a camera though.

I took one *Star Trek* picture from a television, and the other (the Ferengi trader) from a video camera pointed at a page in a magazine.

Vidi 12 comes with a single software program for both AGA and non-AGA machines. It's up to the user to configure it as they require - therefore the software is equally easy to use regardless of the Amiga that you use it with.

The digitiser captures all images as 12-bit colour data, and then mixes this according to your display preferences. HAM mode is by far the best, but 256 and 64 colour are the next best modes.

The unit draws its power from the disk drive slot on your Amiga, and therefore won't require a mains socket. Naturally it comes with all cables.

The manual shows and tells you everything that you could possibly need, in easy-to-follow steps. For further information phone Rombo on 0506 414631.

**SAMPLE STORY**



I am writing to enquire about the sampler featured in your DIY section. A friend who is a qualified electrician has built the sampler to spec. and we have noted the correction in the June issue. The problem is that there's no sampling at all

when connected to my A1200, so could I please ask you to check your specs and parts.  
**Mr. H. Ambler**

There's nothing wrong with the sampler circuit, and the parallel interface on the A1200 is more or less exactly the same as on every other Amiga. Try it with any external drives or other peripherals connected, and check out the software you are using - it may not be fully A1200 compatible. Check the 'Light' program on last month's disk.

**NEXT MONTH**

We've run out of space now, but Mat will be returning next month with answers to all your tricky queries. Remember no problem is too big or too small for our resident in-house expert. Send your questions to Mat Broomfield, Q&A, CU AMIGA, Priory Court, 30-32 Farringdon Lane, London, ECR 3AU.



## JEWEL PD

1000'S of Quality PD and Shareware programs from only 99p per disk.  
Free postage. Free printed catalogue or three 2nd class stamps for disk catalogue

### JEWEL PD

19 HODGKINSON ROAD  
KIRBY-IN -ASHFIELD, NOTTS  
NG17 7DJ

## DISK AUSTRALIA MAGAZINE ON DISK

Disk Australia is a huge 3 disk magazine. The magazine offers about 4 times the reading of conventional magazines. Best of all, the magazine is bought worldwide. It offers support to everyone and everything on Amiga - from Games to D.T.V to Music to Amos to CDTV to even a Aussie holiday Guide!! You will NOT be disappointed! - Please send 7 pound cheque to:

ARGYLE PUBLISHING  
P.O. BOX 418  
COWANDILLA 5033  
SOUTH AUSTRALIA,  
AUSTRALIA

100's of Amiga, Atari ST/E+

GAMES  
UTILITIES  
MUSIC  
plus  
MANY  
MORE

# 90p

at just

SEND NOW FOR FREE  
LISTS AND ORDER FORM  
NO OBLIGATION



PENGUIN PUBLIC  
DOMAIN PO  
BOX 179, READING  
BERKS, RQ3 3DD

## GALACTIK P.D.

Demos, Games,  
Utilities.

FROM 75p

Swapping Service,  
Featured Catalogue  
Disk £1

10, CRUGAN AVENUE  
KINMEL BAY CLWYD  
NORTH WALES LL18 5DG

## COLWYN SOFTWARE

Amiga A1200 £369.95 inc. Comic  
Relief Pack

Citizen Swift 90C £174.99 inc. cable

Walker £20.99

Gunship 2000 £24.99

body blows £19.49

Desert Strike £20.99

PGA Tour Golf £20.99

ALL PRICES INCLUDE P&P AND VAT

Make Cheques /Postal Orders  
payable to: Colwyn Software  
17 Gladys Grove, Colwyn Bay  
Clwyd LL29 7UB

# FREE

## SOFTWARE!

THE STUFF YOU REALLY WANT

Hundreds of users enjoy it,  
AND MUCH, MUCH MORE!

If you NEED all the details  
send a large S.A.E. to:

S.I.X.  
PO BOX 600  
LONDON W12 8ZX

# CDTV

## USER ASSOCIATION

(Est. January '92)

NEWS, REVIEWS,  
COMPETITIONS, TECHNICAL  
INFO, SWAPS AND MORE.

SEND S.A.E. TO:

DEPT CU  
113, FOURACRES ROAD  
NEWALL GREEN M/CR  
238ES



## JOIN THE GUILD OF PROFESSIONAL VIDEOGRAPHERS

We can offer Training Courses on  
Video/Amiga at very reasonable  
rates.

FOR INFORMATION PACK

FAX/PHONE:

0203 601966

11, TELFER ROAD

RADFORD

COVENTRY CV6 3DG



## MICROLAND BULLETIN BOARD SYSTEM

0891 990 505  
To Download

0483 725 905  
To View

Amiga shareware including files from the Fred Fish  
Collection plus lots more to download at V32bls,  
V32, V22bls, V22, V23, & HST 8 data blts, no parity.

Why wait for your software when you can download now direct to your computer. Microland offers high speed connections and most files are compressed to minimise the cost. Check it out on 0483 725 905 at normal call charges. So much shareware you are spoilt for choice.

Over 30 file areas including Animations, ARexx Files, Badge Killer Demos, Business, Clocks and Calculators, Commands, Database Directory and Disk Utilities, Display Hacks, Education, File Utilities, Fonts, Fractal and Mandelbrots, Games, Graphics, Icons, Libraries, Programming, and Communications. Area 1 contains file lists for all areas to help you find what you are looking for. Protocols xmodem, ymodem, zmodem, kermit, sealink, and uuop.

Calls to 0891 990 505 charged at 36p per minute cheap rate, 48p per minute all other times.  
Trevan Designs Ltd. PO Box 13, Aldershot, Hants. GU12 6YX.

## AMIGA SPARES & REPAIRS

Power Pack	£29.99
A520 Modulator	£24.99
(Exchange only)	
Internal Drive	£35.00
a500 Repair	£37.99
Mouse	£6.99

CHEQUE/PO TO:

OMNIDALE

23, CURZON STREET

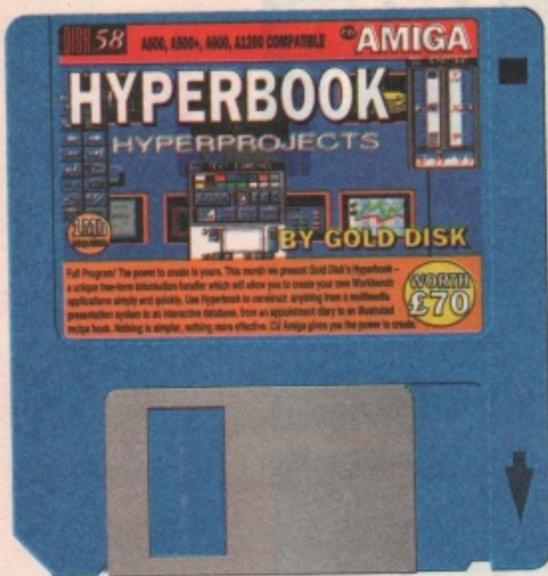
DERBY

DE1 2ES

(0332) 291219



AMIGA (CLASSIFIEDS) TODAY



**PART 1** If you've been tinkering with *HyperBook*, from June's coverdisk, and want to know what else it's capable of, here's the place to find out. In the first of a new series, Jason Holborn puts the program through its paces.

If you picked up a copy of the June issue of CU AMIGA, then you'll already be the proud owner of *HyperBook*, Gold Disk's easy-to-use multimedia authoring system for the masses. As you have probably already realised just by looking through the demo 'books' (this is what *HyperBook* calls its 'stacks'), *HyperBook* provides a quick and easy method of knocking up just about anything from a simple slideshow to a full-blown multimedia-based educational training system.

### GETTING STARTED

Over the next few months or so, we'll be putting *HyperBook* through its paces by showing you how it can be used to create some really quite useful applications. Don't let this concern you, however – there's no coding involved (well, at least there's only very little) so even your Grandma will be able to handle our *HyperBook* tutorials.

This month we're kicking off with a little utility that all hard drive owners will undoubtedly find very useful indeed – a hard disk menu.

Our *HyperBook* menu system will allow you to set up a menu containing a list of all your favourite programs that, once installed, can be run simply by clicking on a gadget. Just think – there'll be no more need to hunt through endless directories trying to find that ray tracing program that you haven't used for months!

### FUNCTIONS

In these tutorial pages over the next few months we'll also be including a couple of useful functions which will allow you to carry out all manner of house-keeping chores such as formatting a disk, copying a disk from DF0: to DF1:, etc.

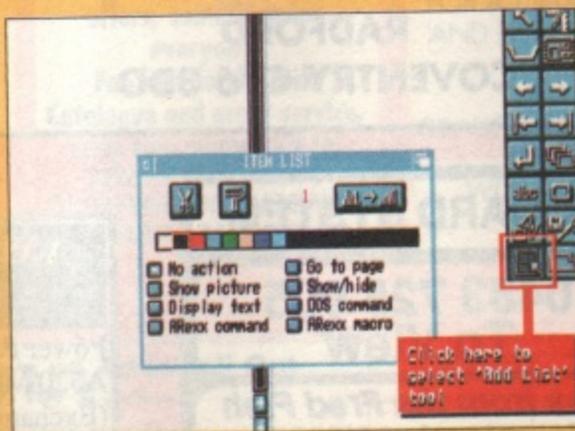
Does all this have you raring to go? Well, in that case, why don't we boot up *HyperBook* and get started?



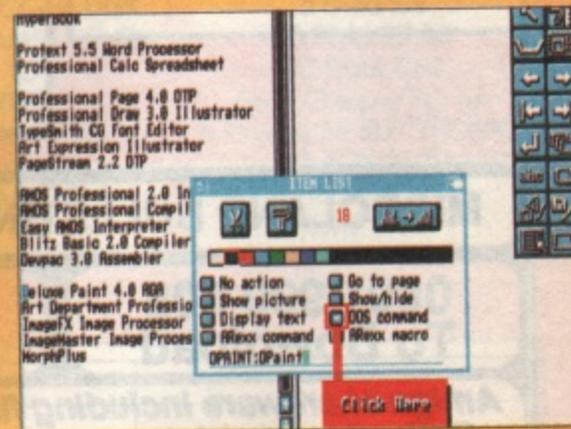
2 Once the basic shape of the list has been defined, we can start typing in the names of the programs that we can launch from the menu. At this point, exact file and pathnames aren't important – the text that is displayed within the list is nothing more than labels, so you can type anything you want – 'DPaint AGA 4.5 Paint Program', for example, for *DPaint*. If you want to split the entries up so that different types of program are grouped together, *HyperBook* does allow you to do this simply by pressing the <RETURN> key to insert a blank line. Don't worry about these blanks – unless you assign an action to them, they will do absolutely nothing if the user clicks on them.

3 Now that we've entered all the program labels into the list, we need to assign an action to each one so that the programs in question are loaded when the user clicks on the appropriate label. To do this, simply select 'DOS Command' and a string gadget will appear. In order for *HyperBook* to access any program, the filename complete with full path information must be entered. If, for example, you wanted to attach *DPaint* to a particular list item, you would enter something like 'DH1:Graphics/DPaintAGA/

# GETTING STARTED WITH HYPERBOOK

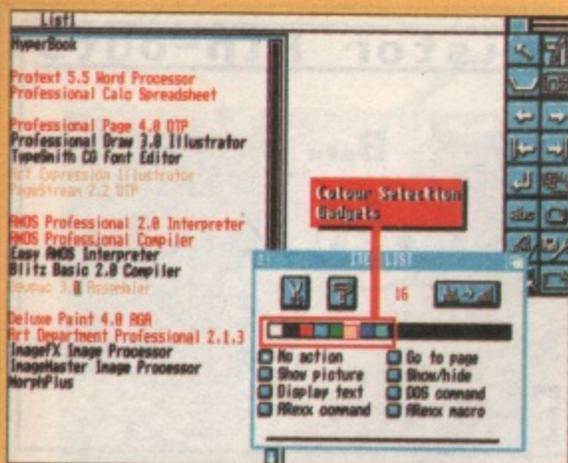


1 Once the *HyperBook* program has loaded, we can get started with this month's project. The first thing that we need to do is to create the *HyperBook* 'list' that will hold the list of the programs that can be run from our hard disk menu. Simply Click on the 'Add List' gadget in the *HyperBook* toolbox and then drag out a rectangle. This will need to fill the entire left-hand side of the screen.

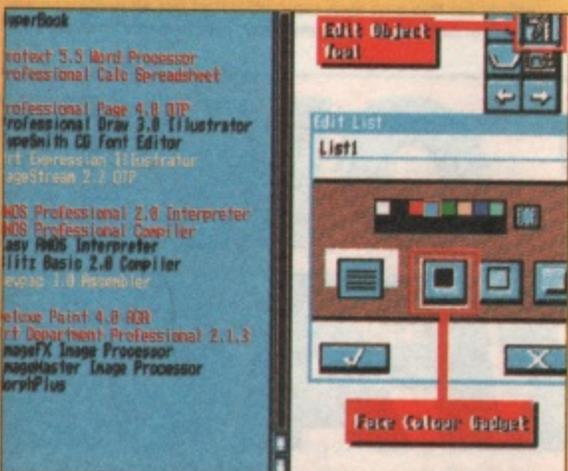


*DPaint*' for the pathname (obviously you should change this to reflect the position of *DPaint* on your hard disk!).

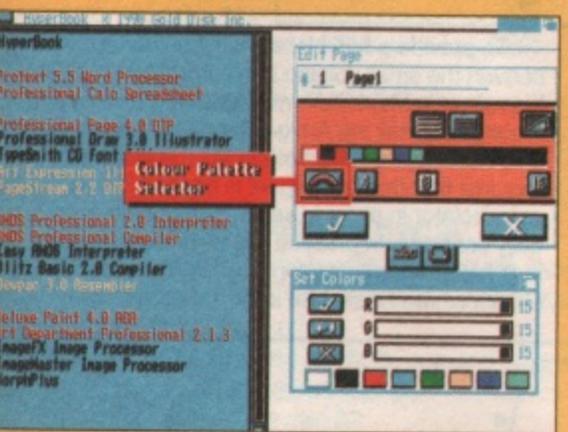
If you want to run a program that needs a fair amount of setting up (you might need to increase the stack, for example), simply write an AmigaDOS script that carries out the setting up and then using the AmigaDOS 'Execute' command to call the script from your *HyperBook* application.



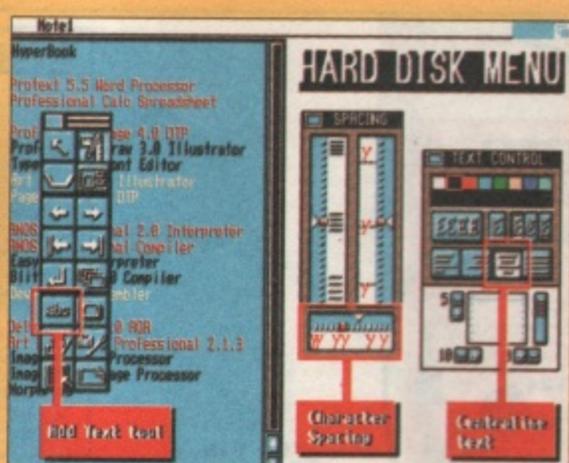
4 The colour of each list entry can be altered simply by selecting each entry in turn and then clicking on the appropriate colour gadget. This can be quite useful as it allows you to group programs using a sort of colour coding system. You could, for example, have all your DTP programs listed in red, programming languages in blue and so on.



5 Now let's change the background colour of the list box. Quit out of the Item List requestor and then click on the 'Edit Object' icon within the HyperBook toolbox. Move the mouse pointer over the list and then press the left mouse button followed by the right mouse button to bring up the List Editor. In the middle of the requestor you should see a row of three gadgets that allow you to alter the appearance of the face, outline and shadow of an object. Click on the face gadget and then select the colour that you'd like. Quit out of this editor by clicking on the tick gadget.



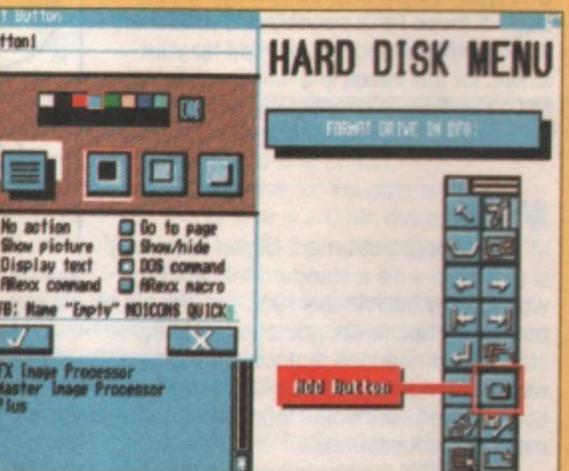
6 If you're not happy with the default colour palette, you can change it by selecting 'Edit Page' from the 'Page' pull-down menu. The Edit Page requestor should appear. Click on the little Rainbow gadget and a colour palette requestor will pop up on the screen. Alter the palette to suit your needs and then click on the tick gadget to return to the Edit Page requestor. Click on the Edit Page's tick gadget and you'll be returned to HyperBook.



7 Now that the list is complete, we can start adding in the menu title and a couple of function gadgets. First, the title. Click on the 'Add Text' tool and then drag out a text box of the size required. Once you let go of the left mouse button, a flashing cursor will appear inside the text box. Enter your text (in this particular case, enter 'Hard Disk Menu') but don't press <RETURN>. If you do, HyperBook will insert a carriage return causing the text to be scrolled up and decentralising the title.

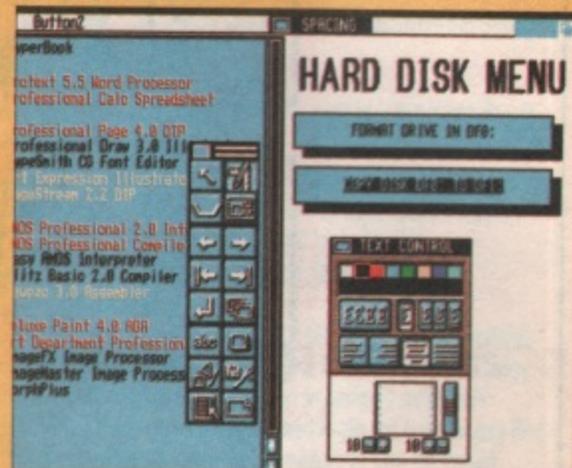
Along the HyperBook screen drag bar you should see two iconified windows entitled 'Spacing' and 'Text Control'. Click on the close gadgets of these two windows to bring them into view. Before we can alter the text however, we need to select it. Click on the first character and then drag the mouse pointer across the text to highlight it. Using the Text Control requestor, now click on the 'Centre' gadget to centre the text. You can also use this requestor to change the font by clicking on the 'Font' gadget. This will bring up a font requestor that - by default - displays the ROM fonts only. To load disk-based fonts, click on the gadget that has a small picture of a disk with an arrow and then select the font that you want.

If the text doesn't fill the text box fully, then you can also change the spacing of individual characters. Just drag the little arrow left or right to increase or decrease the character spacing.

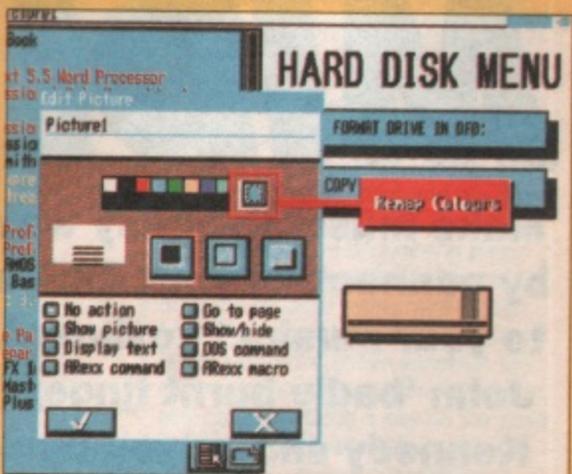


8 With the title complete, we can now add some function buttons to allow us to carry out common disk operations such as formatting, copying etc. First though, we need to create a button to hold the function. Click on the 'Add Button' tool and then drag out a rectangle of the size required. When you release the left mouse button, the Edit Button requestor will appear. Click on 'DOS Command' and then enter 'SYS:System/Format DRIVE df0: Name "Empty" NOICONS'. This essentially ties the AmigaDOS 'Format' command to the button so that when the user clicks on it, the Format command will be run. Note that this will be completely transparent - you won't, for example, get an AmigaDOS requestor appearing on the screen that shows progress. All that will happen is that the disk currently in drive DF0: will be formatted.

By default, the Edit Button requestor will not allow you to enter text into the button, so we need to quit out of the Button Editor and edit it manually using the 'Edit Object' tool. Click on this icon and then click twice on the button to select it. Just like the 'Add Text' option, a flashing cursor will appear in the centre of the button. Type in 'Format disk in DF0:' remembering not to press the <RETURN> key.

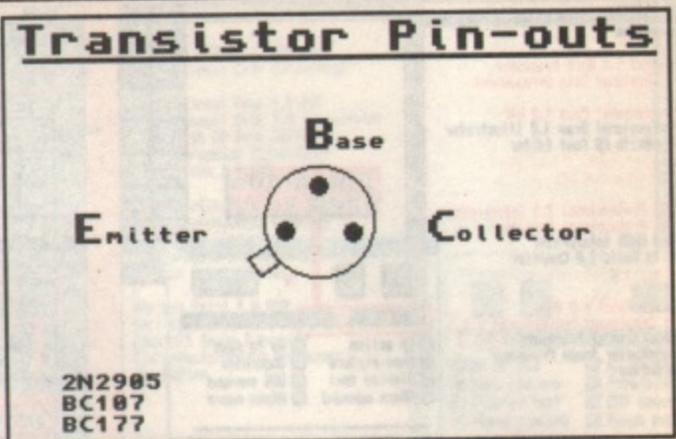
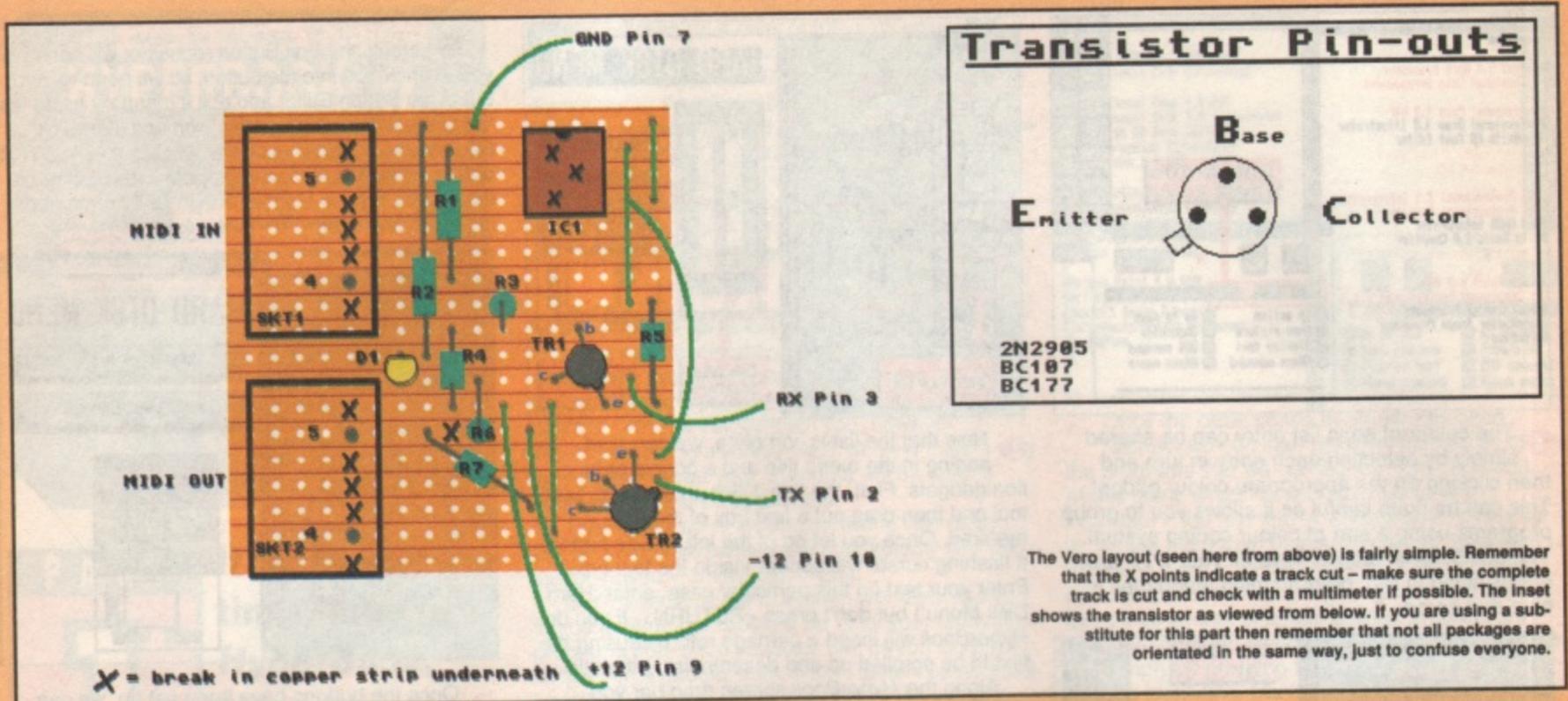


9 Once the buttons have been set up, we can fine tune the button labels by altering both the font and its colour. Click on the 'Edit Object' tool and then click twice on the first button to edit it. Highlight the text by dragging the mouse pointer across it whilst holding down the left mouse button. Call up the 'Text Control' requestor and click on the colour that you want.



10 Finally, let's add a graphic to our hard disk menu. First we need to draw the graphic using a paint package. Set the paint package to medium resolution (640x256) with eight colours and then draw your graphic and save it to disk as a standard IFF file. Once this is done, return to HyperBook and click on the 'Add Graphic' tool. This will bring up a file requestor prompting you to select the filename of the picture to load. The graphic is loaded into a separate screen that allows you to select a rectangular region using the mouse. Draw a rectangle around your graphic and then - if you're happy with it - click on the tick gadget to return to your HyperBook stack.

Even once you've selected the graphic, HyperBook won't simply drop it onto the page. The graphic is attached to the mouse pointer as a DPaint-like brush that can be moved and pasted onto any part of the screen. Place it directly below our function gadgets and then press the left mouse button. By now you will have realised that HyperBook doesn't display graphics in colour by default. It will remap the palette of the graphic so that it matches that of the stack. Click on the 'Edit Object' tool, click on the graphic with the left mouse button and then click the right mouse button to bring up the 'Edit Picture' requestor. The remapping gadget is a tiny square box to the right of the palette controls. Click on this and then click on the tick gadget to return to HyperBook. CU

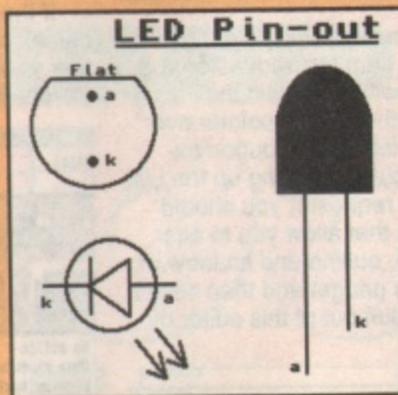


The Vero layout (seen here from above) is fairly simple. Remember that the X points indicate a track cut – make sure the complete track is cut and check with a multimeter if possible. The inset shows the transistor as viewed from below. If you are using a substitute for this part then remember that not all packages are orientated in the same way, just to confuse everyone.

# BUILD YOUR OWN MIDI INTERFACE

Make music the easy way by connecting your Amiga to your musical keyboard. John 'badly burnt fingers' Kennedy shows you how.

If you have a music keyboard, synthesiser or drum machine, get it out of the cupboard and check for some round DIN-type five pin sockets marked on the back. If these MIDI connections exist then this month's project will be right up your street, for this circuit is a fully functioning MIDI interface to connect the keyboard to your Amiga.



Of course, CDTV machines have MIDI interfaces as standard so they can practice smug grins and swan out of the room.

**RS232**  
The Amiga uses the wildly exciting RS232 industry standard, which means the serial signal pulses in swings from -12 volts to +12 volts.

## WARNING

### READ THIS FIRST

We want you to enjoy building your project, so please take the time to read these warnings. Although the project described here has been built and tested, neither the author nor CU AMIGA can be held responsible for any damage which may be caused to either yourself or your computer as a result of using it. As no mains voltages are required in this circuit it is extremely unlikely that you could electrocute yourself, but you should still take care. If your computer does not behave normally when the project is connected, switch off immediately. Check the circuit carefully for short circuits and wiring deficiencies. Always add or remove the parallel port connector with the computer switched off. Never leave the soldering iron unattended, and always switch it off when it's not in use. It is all too easy to forget about it and then pick it up by the wrong end several hours later. If possible, wear protective eye-gear when soldering and use a vice or clamp to hold the circuit in place. Never splash hot solder around.

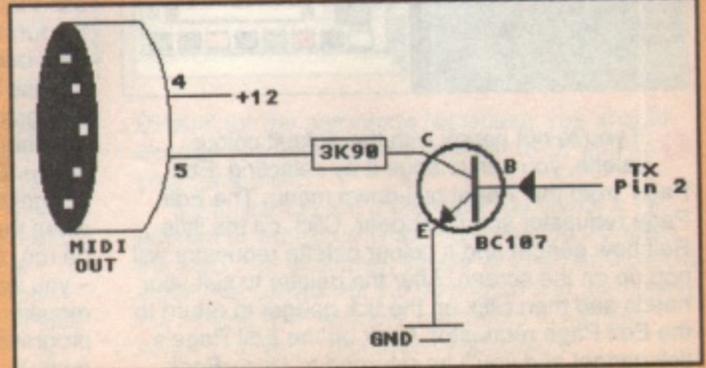
### MIDI

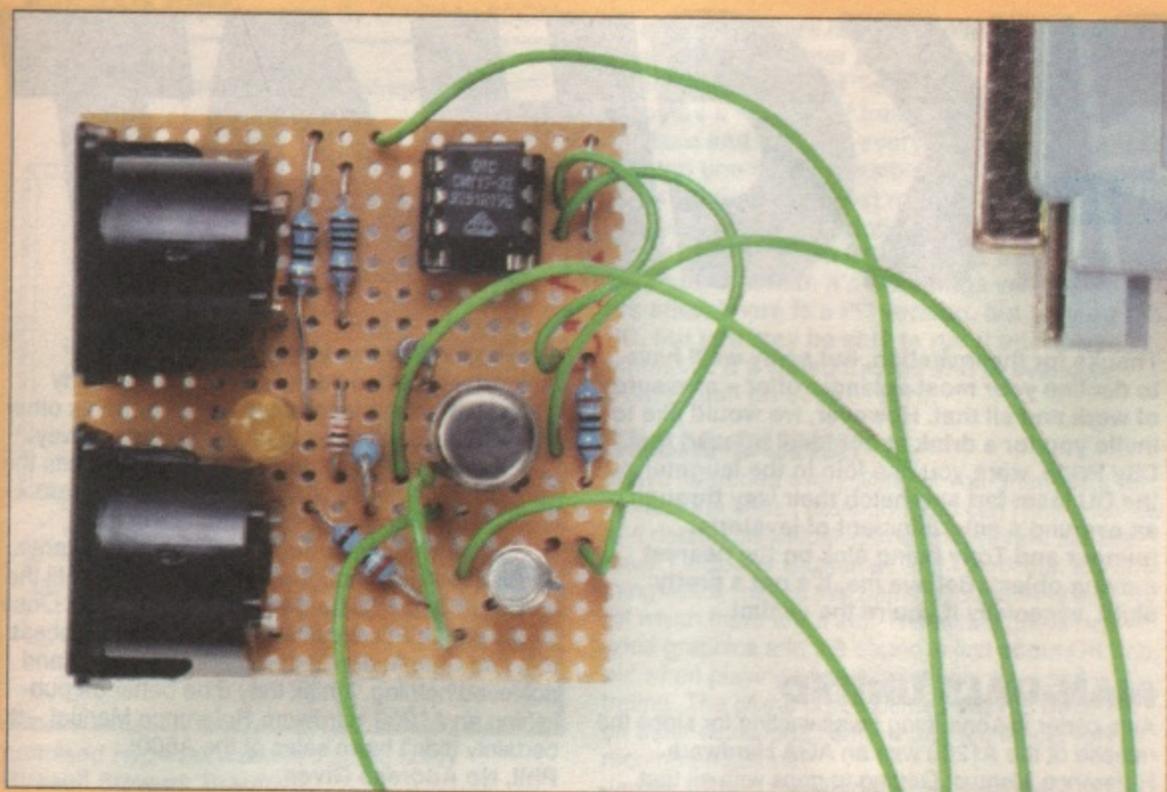
MIDI (Musical Instrument Digital Interface) is a miracle – it's a standard that actually works. Way back in the 1980's all the big music keyboard manufacturers got together to agree on a standard connection protocol. At the time the idea was to provide a method of allowing several keyboards to be connected together, in order to generate more powerful sounds.

Each MIDI connection uses two cables, one for transmitting and one for receiving information. These are called the MIDI OUT and MIDI IN signals – the OUT from one piece of equipment is connected to the IN on the other, and vice versa. In order to include the Amiga in the MIDI chain, we need to find a way to process both the transmitted and received information into a form suitable for both parties.

Although the Amiga doesn't sport a MIDI connection, adding one is quite easy, as the serial port has been adopted as the recommended method by Commodore. All that needs to be done is to change the MIDI data into the RS232 standard. Any piece of music software which uses a MIDI interface can be used, as every interface is addressed by the Amiga in the same way.

To provide a MIDI IN signal, the interface must convert the small voltage pulse from the musical instrument's MIDI OUT into these +/-12 volts, and likewise convert the Amiga's +/-12 output into a suitable MIDI voltage. Part of the MIDI specification requires that the input signal is passed through an opto-isolator in order to keep each instrument electrically separate. In practice this is no big deal, as a suitable isolator costs considerably less than a pint of Guinness, and it's better to be safe than sorry.





**PARTS LIST**

**Resistors – All 0.25 Watt**

- R1 150 Ohm
- R2 390 Ohm [optional – for use with LED]
- R3 390 Ohm
- R4 10K Ohm
- R5 390 Ohm
- R6 390 Ohm
- R7 3K9 Ohm (Note: It's different from the 390R, this one!)

**Semi-conductors**

- TR1 2N2905 PNP (if unavailable, BC177/8/9 will suffice)
- TR2 BC107 NPN or similar
- IC1 Opto-isolator, CNY17 or equivalent. Maplin's have one with order code RAS7M.
- D1 [optional] Any old coloured LED.

**Miscellaneous**

Small piece of vero-board. Two 180° 5-pin sockets, suitable for mounting directly on PC board. Connecting wire. 25way male D-type plug for connection to Amiga's serial port. Casing for above. MIDI instrument 8-pin (or 6 if you can find one). IC socket. Sockets for transistors (if you are a real chicken!). Pair of MIDI leads, each ending in 5-pin DIN plugs.

**HOW IT WORKS**

There are two individual circuits on the board – the MIDI IN and the MIDI OUT. First, the input. From a suitable 180° 5-pin DIN socket, the input signal is passed (via a resistor) to the input of the opto-isolator. Inside this tiny piece of black plastic, an infra-red LED will light every time a MIDI pulse is received.

Beside the LED is a light dependent transistor, which will be 'turned on' by the infra-red flashes. The output of this device is fed into the base of a transistor, which acts as a switch. When a pulse occurs, the transistor switches on, providing an RS232-like input to the Amiga. The transistor is also used to flash an optical LED when a signal is transmitted, but this is an optional extra purely for show. You can leave it out with no ill effects.

The MIDI OUT circuit is even simpler, as no opto-isolator is required. The signal to be transmitted by the Amiga is used to switch yet another transistor on and off. When turned on, this transistor allows a 5mA current to flow into the MIDI socket, which will light the LED of the opto-isolator on the receiving end.

**BUILDING IT**

Only a very small scrap of vero-board is required for this project, less than 20 holes by 20 strips. Probably the best way to proceed is by soldering the two 5-pin DIN sockets into place.

Next make the breaks on the track. Pay particular attention to the connections from the DIN sockets, and ensure that no short circuits are present. You'll

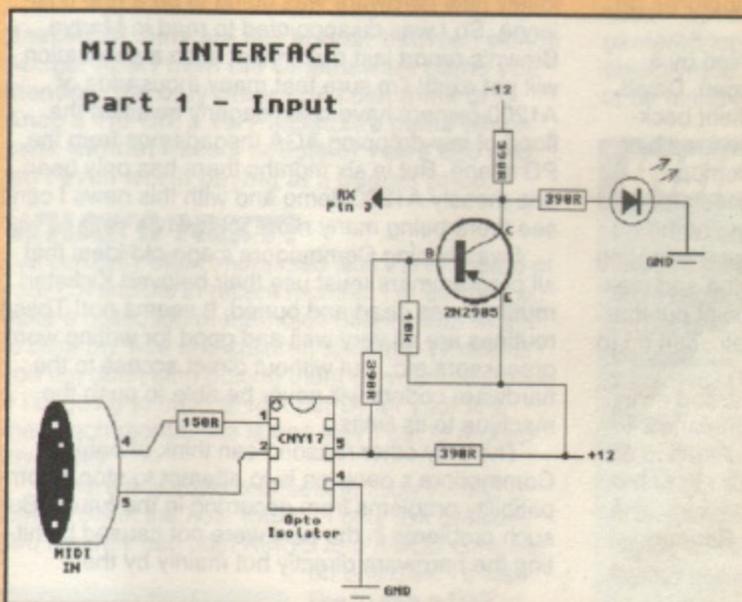
**PROBLEMS, PROBLEMS**

Here's a special note to those who have had problems with previous circuits. All the circuits definitely work because I have built and used them – check your own board very carefully against the colour photograph.

Because we're only (vaguely) human the occasional minor error might slip through in the circuit diagrams, but the camera cannot lie.

Work through the following checklist:

1. Have you made clean breaks on the veroboard's copper tracks where indicated? Make the breaks before soldering components if possible, and check for short circuits with a multimeter.
2. Are capacitors, ICs, diodes and transistors the correct way round?
3. Are all the connecting leads present? Again, check with a multimeter if possible.
4. Are all the connection leads in the right places?
5. If the project still refuses to work, it's possible a component has been broken, perhaps by applying the soldering iron for too long. This applies especially to ICs and transistors.



need to examine the sockets for the pin numbers, as it may be different from the one I used.

Now solder the IC socket for the opto-isolator in place. Note that the isolator is a 6-pin device, but you will probably need to use an 8-pin socket as I'm not sure 6-pin ones exist.

Solder in the wire links and resistors. Watch out for R7 as the colour code is almost the same as the R2,3,5 and 6. When soldering in the LED and the transistors, use the soldering iron as quickly as possible as these devices are heat sensitive. Check the orientation of the LED's and transistor's legs with the diagram. If you use different transistors, check their legs as the order may be different.

Note that I used a 2N2905 transistor because that was the only PNP device left in my local electronics shop – if you use a BC177 like I originally wanted to, you must check the pin outs. You cannot connect a transistor any way you want to!

The pin numbers following the connection leads in the diagram refer to the pin number of the 25way serial socket. You should be able to

make out matching tiny numbers on the socket, but check with your Amiga manual if you are unsure.

**TESTING IT**

With the circuit built and thoroughly checked, it's time to plug it into the Amiga. Always, and I mean always, switch off the computer first. Switch it back on, and if the normal boot-up screen does not appear or you smell burning, *switch off immediately* and perform a double, triple and quadruple check.

If all seems to be working properly, connect the MIDI OUT socket from the musical instrument to the MIDI IN of the interface. If your keyboard performs 'active sensing', the LED will start to flash immediately. In any case, pressing a key on the musi-

cal keyboard should definitely make it flash. If this does not happen, there are several possibilities: 1. The interface circuit is not functioning – test it again. 2. The circuit is working, but the LED is soldered-in the wrong way round. 3. The musical instrument is not set-up to send MIDI information – see the instrument's manual for details.

If all is working, try loading your sequencing software. A good example is *MED*, which can be configured to use an external keyboard as an extension of the standard Amiga voices.

Other PD programs are available, but consider buying a program such as *Music-X* (be prepared to read the manual inside out!) or *Bars & Pipes* for best results.

When placed in playback mode, and the correct cable used, the MIDI OUT function of the interface should work perfectly well. If not, check there is any output by using a multimeter. The value of R7 may need altered slightly if you are using extremely long leads. **CU**

**NEXT MONTH**

In the next issue, John Kennedy will delve deeply into the world of robotics. Watch this space to learn how to turn your Amiga into the brain of a highly suspicious android always worried whether you're planning to turn it off.

# BACKCHAT

**Once again the task of wading through our monumental stack of mail fell to John Mather.**

## DRINKS ARE ON ME!

Perhaps you have heard of me and my nationwide campaign in the cause of Temperance.

Each year, for the past 14, I have made a tour of England, including Manchester, Liverpool, Glasgow, East Anglia, and the South East and have delivered a series of lectures on the evils of drinking.

On this tour I have been accompanied by a young friend and assistant, David Morgan. David, a young man of good family and excellent background, is a pathetic example of a life ruined by excessive indulgence in whisky and women.

David would appear with me at the lectures and sit on the platform wheezing and staring at the audience through bleary, bloodshot eyes, sweating profusely, picking his nose, passing wind and making obscene gestures, whilst I would point out that he was an example of what drinking, etc. can do to a person.

Last winter, unfortunately, David passed away. A mutual friend has given me your name and I wonder if you would care to take David's place on my next tour.

Yours in earnest expectation,  
**Rev. Harold Knight, Chairman, The Rescue Mission, London.**

Thanks for the invitation, but sadly we'll have to decline your most splendid offer – pressures of work and all that. However, we would like to invite you for a drink at our local boozer, the City Pride, were you can join in the laughter as the CU team fart and belch their way through an evening's entertainment of lavatorial humour and Tony being sick on the nearest moving object. Believe me, it's not a pretty sight, especially if you're the victim!

## MAN-UALS UNITED

As a coder the one thing I was waiting for since the release of the A1200 was an AGA Hardware Reference Manual. Getting to grips with all that lovely new hardware was going to be a real challenge. So I was disappointed to read in Martyn Brown's report last month that such a publication will not exist! I'm sure that many thousands of A1200 owners have been eagerly awaiting the flood of jaw-dropping AGA megademos from the PD scene. But in six months there has only been one measly A1200 demo and with this news I can't see there being many more for a while yet.

I was hoping Commodore's age-old ideal that all programmers must use their beloved Kickstart routines was dead and buried. It seems not! These routines are all very well and good for writing word processors etc., but without direct access to the hardware coders will never be able to push the machine to its limits.

The only other reason I can think of behind Commodore's decision is to attempt to stop incompatibility problems from occurring in the future. But such problems in the past were not caused by hitting the hardware directly but mainly by the

assumption that the addresses held in the Kickstart ROMs would never change – nobody takes such things for granted now! Programs other than utilities don't need to multitask and anyway, you CAN write non system-killing code that hits the hardware directly so what is Commodore's problem? Their snobbish attitude smacks of the compulsory Nintendo/Sega licensing agreements.

So it looks as though we'll have to wait until the hardware data is leaked to the outside world. Once it gets on the PD circuit everyone will have access to it and Commodore's policy will have failed and achieved nothing. I think they'd be better off publishing an A1200 Hardware Reference Manual – it certainly didn't harm sales of the A500!  
**Phil, No Address Given.**

**Don't worry, you'll be able to get your hands on an AGA Hardware Reference Manual – unfortunately you'll have to wait until NEXT SUMMER!!! Apparently, cut backs at Commodore have delayed the publication of such a book, and it looks likely that the heavy-weight tome will not make an appearance until next year at the earliest. Sorry.**

## CUT THE HYPE

So where was the *Hyperbook* tutorial we were promised in the June issue, when you gave the original program away? I'd managed to suss out most of the functions and even put together a rudimentary slideshow routine, but I was really looking forward to an expert tutorial on the program. After all, if you bother to give away a program that's worth over £70, the least you could do is back it up with step-by-step guides. I hope we'll see the

## TEAM TALK

**In a rare gesture of goodwill, CU AMIGA's publisher opened up the rusty locks on his bomb-proof wallet and treated us all to a slap-up day out. Not ones to turn down the chance of wasting someone else's money, we leapt at the chance...**

### DAN SLINGSBY

The day began with Dan making a right prat of himself, trying to show off his ten-pin bowling prowess and falling flat on his face and guttering the ball at his first two attempts. A couple of pints later, though, and Dan was in the swing of things (with everyone else ducking out of his way), and he finished up tops [*natural born leader that I am – Ed*]. After that, things rapidly deteriorated when we piled into the Ruby In The Dust restaurant for some nosh. By this time, most people were a bit worse for wear, and Dan had an unfortunate encounter with his publisher in the downstairs toilet which resulted in his jeans taking somewhat of a soaking. The only problem was, Dan was not totally aware of Garry's dirty deed and proceeded to come to work in the same pair of jeans the next day. He's now got a rather jaded opinion on senior management!



### JON SLOAN

Jon had his sensible hat on during our day out and snootily sat by himself while the rest of the team were stuffing their faces with all manner of Tex-Mex grub and generally having a good time. At least, that's what he'd like you to believe. The truth is a rather more sordid affair, with Jon proceeding to drink everyone under the table, ordering champagne by the bucket full while Garry wasn't looking (which we've somehow got to pass off as a legitimate business expense!), and doing his best Eric Morcambe impressions to passers-by in the street. After falling asleep at the table (before which he muttered something about taking a mid-afternoon nap and could we tuck him up in bed, please), we decided to put the Northern lager fiend on the next slow train home, whereupon he promptly had his first encounter with a rolling pin from his just-married wife. Domestic bliss!



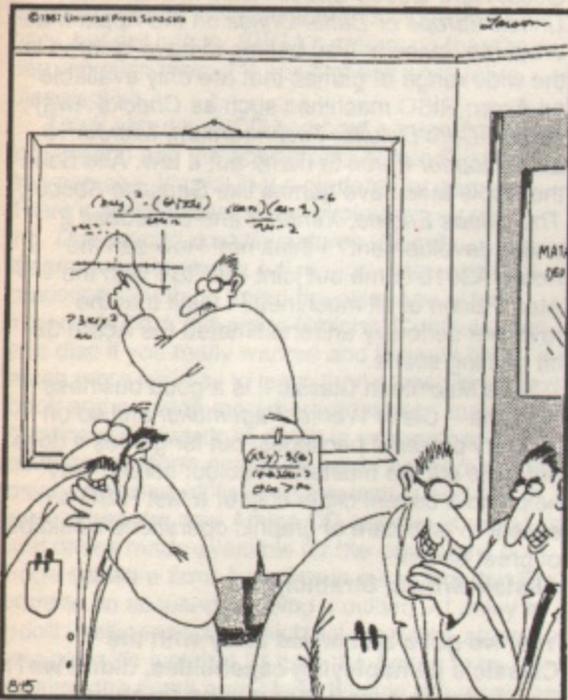
### HEATHER TURLEY

Heather took the day off, rather than mixing it with the beer boys of CU. She can't kid us though, we know she's not really pregnant and that bulging tum is really an unfeasibly large beer belly from all those boozy lunches she sneaks in when no-one's looking. Actually, while writing this pack of lies, I've suddenly become all maudlin and sad as this is the very last issue of CU AMIGA that Heather will work on as she's about to become a mum. Things just won't be the same anymore – no more threats of grievous bodily harm if we don't finish a feature in time, or wacks around the ear-hole for coming in late after the register's been called! But joking apart, everyone at CU Amiga would like to wish Heather and her soon-to-be-born sproglet all the best for the future. Thanks for all the effort you've put into CU Amiga over the last few months – it's been greatly appreciated.



THE FAR SIDE

By GARY LARSON



promised *Hyperbook* series starting soon. Russell Stewart, Bradford.

Dan's the guilty party when it comes to the non-appearance of the *Hyperbook* tutorial. He forgot to commission it! Still, he's made amends this issue. This isn't the only example of Dan's forgetfulness – the fresh-faced Editor recently left £50 sticking out of a cash-point machine! I don't know, we pay him too much...

EQUATION EDITOR

In replying to S.P. Buckley's letter (p.176 June issue), you said that it was possible to get an equation editor for the Amiga. I am desperately looking for a WP with this feature for writing my University reports. Can you tell me where to get the program you refer to? At the moment it seems I might have to draw the equations in *DPaint* and import them as graphics.

Arthur Laughton, Sheffield.

TONY HORGAN

Never having experienced a CU day out, Tony didn't know quite what to expect. He still hasn't fully recovered! What little he can remember, he's still too embarrassed to talk about so we thought we better enlighten him through these very pages. When we told him over dinner that Lord EMAP



had decided to double his pay overnight and give him a company car, our Tone was overcome with emotion and it was hugs all round and 'Yersh my besht mates, yoush are!'. Funnily enough, his mood changed quite dramatically when we told him it was all a pack of lies – never could take a joke, that's what we say! Nevertheless, Tone soon recovered (and was able to regain the use of his feet and stagger to the next pub) and spent the rest of the night entralling us all by playing *No Limit's* latest hit with a spoon on a couple of empty beer bottles. Very sad.

NICK VEITCH

Unfortunately for the rest of the CU team, Nick has a lead-lined stomach that is impervious to alcohol, sulphuric acid, neutron bombs and anything else you'd care to chuck at it. It's also a huge bottomless pit that can literally soak up anything that's poured into it. This was especially unfortunate for our wily publisher who thought everyone would have passed out by 6 o'clock and he could escape with a cheap night out. Nick was hearing none of it and proceeded to mop up the entire contents of Garry's wallet plus several credit cards into the bargain. He's subsequently been banned from any further days out until medical science can offer a creditable reason for his still being alive. It was certainly back to earth with a bang the next day, though, and one with a very loud reverb too! But remember kids: drinking isn't clever or anything, it's just plain fun!



Yes indeed. There is a text editor which can handle proper super and sub scripts which goes by the name of TeX (pronounced "tec"). It also has a resume of integral, differentiation, Laplace and virtually every other mathematical symbol you could possibly imagine. This used to be carried by a great many dealers, but it is not quite so easy to find these days. Try UniTeX Systems on 0423 520902 and make sure you tell them it's the Amiga version you are after. There is a PD version, but only on the PC, but you may be able to run it under an emulator. It's called EmTex and is available from Eiglen on 0793 611270.

SLAM-DUNK!

I have searched every issue of your magazine (or at least the ones I have got) and can't find a review of a decent basketball game anywhere! I already have *TV Sports Basketball* and I think that the only thing which makes this game good are the options (of which there are a lot). The actual game has good graphics and the sound is just about OK, too, but when playing I find it irritatingly slow and frustrating. The game is sometimes easy to beat, but on other occasions I don't stand a chance. Any recommendations?

James Gilbert, Newcastle-under-Lyme.

Basketball sims are few and far between on the Amiga. Apart from the Cinemaware game you mention, the only other title I can think of is Anco's *Tip-Off*, a very lacklustre game which sank without trace a couple of years ago and isn't even worth buying at a budget price.

WHAT'S NEXT?

I've certainly been impressed with the standard of your coverdisks in recent months. I'm building up quite a collection of top-notch utilities with which to bore my wife and children to death. Whatever you do, don't stop putting them on your coverdisk. If I'm going to have to fork out £4 for your fine mag each month, this is one way I get to recoup my outlay.

Is there any chance of seeing *Easy AMOS* or *AMOS 3D* in the near future? I only ask because you recently had both AMOS and AMOS compiler on one disk. I'd also like to see a DTP package if possible and maybe another music package to the standard of your *OctaMed* giveaway last year. Don't want much, do I?!

Ed Sawyer, Exmouth.

I'm glad you're enjoying the full-price software we've been giving away. And don't worry, we're certainly not going down to one disk in the foreseeable future and will continue to give away commercial software for as long as we can afford it. It's doubtful you'll see either *Easy AMOS* or *AMOS 3D* as covermounts just yet, as the two titles are still clocking up respectable retail

sales. If they do become available, though, you can bet CU AMIGA will be there with its cheque book poised. Just wait until you see what we've got planned for later on in the year!

COVER UP

One thing that constantly annoys me is the way you'll hype a game demo up out of all proportions to exactly what's on offer. A good example would have been April's *Chuck Rock 2* demo which was described as being absolutely HUGE! I can understand why the *Goal!* demo had a limit, but I'm sure a platform game could have offered more. *Premiere* jumps to mind as the way things should be done. It was absolutely brilliant. The other disk, by the way, has always surpassed even my expectations – thanks for providing superb packages which would otherwise have cost an arm and a leg, and a kidney and liver thrown in for good measure.

Another gripe I have is the feeling that CU has a predisposition to shower hyped up games with high percentages. *Project X* is a case in point. I had the dubious privilege of playing the game at a friend's house, but even with the cheat (which made it less fun to play) I could only take a couple of minutes of pure mayhem. It was truly an ultimate – but flawed – experience. But it still garnered tons of praise. Maybe a little bit more objectivity is needed. The percentage points seem to be faring worse than the rouble!

INSIDE INFORMATION

Does the recent merger between Spectrum Holobyte and Microprose signal the start of a series of software house takeovers? It's known that a number of softies are on decidedly dodgy financial ground at the moment, and that a link up with a cash-rich publisher would be one way to survive the increasingly tough trading conditions of the nineties. Only recently, we've seen Psygnosis gobbled up by Sony and Origin disappear into the bowls of Electronic Arts. Rumours sweeping the industry speak of a buying spree from the Far East in which many famous names will be swept away. Keep watching.

Lastly let's have many more DIYs and especially the previously mentioned slow-motion switch. They are a brilliant way of burning fingers and blowing fuses around the house. I cannot claim that my amplifier met with any degree of success, but it sure was fun trying! I'd love to get my hands on more ideas. Keep 'em coming. Tanzeel Ansari, Whoknowswhereland.

Apologies about over-hyping coverdisks, but we do try and bring you the best game demos around. Because of our large circulation, we usually get first pick when it comes to the best demos available. I've got to agree with you, though, that the *Chuck Rock 2* demo was a bit of a let-down. It wasn't that big a playable slice of the action by any stretch of the imagination. In this particular instance, though, the coverdisk label was actually produced before we'd seen the completed demo (such are the vagaries of magazine production!), so we had no idea it would be as short as it was.

I also don't think we overmark. If you check out any given issue, you'll find a whole range of scores. Only the best get top marks, and if that means awarding a CU AMIGA Superstar to a hyped game, then so be it. *Project-X* definitely warranted a high-score as it's the best shoot 'em up on the Amiga bar none. We've

# LETTER OF THE MONTH

## HANGING ON THE TELEPHONE

I have become addicted to the world of comms ever since I got my trusty Linnet 24 Modem a couple of weeks ago. I have been logging on to all sorts of weird places and chatting to various Sysops and enjoying every minute of it. Unfortunately, I can't download anything, as most of the boards I 'phone are not aimed at Amiga users. Could you please tell me some Amiga BBS numbers north and south of the border? Also, are you going to introduce a comms section in your already excellent magazine?

Yours saving up for the next phone bill...  
**Jeff Cronkshaw, Kincardineshire, Scotland.**

We introduced a Comms section last year, but it wasn't very popular and was subsequently dropped. Our recent survey also showed little support for the subject, which is a pity as everyone in the office logs-on at

least once a week. If enough readers write in, perhaps we'll reinstate the column. As for board numbers, here's some of the most popular Amiga BBS names and numbers:

01 For Amiga	071 377 1358
061 Developments	061 799 4922
Amiga Forgery	0908 604229
Chiba City	0501 44262
CliffNet	0642 467324
End Zone	0524 752245
Guru 10	0738 52063
Junction 9	0372 278000
Meridian Amiga	0273 588924
Needful Things	0495 245151
Ponty	0443 409882
Protocol	0403 272931
Rock Lobster	0462 679524
Saxon	0273 308800
Theatre West End	0625 828795
Yukon Ho!	0232 768163

actually marked the enhanced version (reviewed this issue) down somewhat, as Team 17 have made it too easy for our liking now.

## WHERE'S MY SUB?

Some months ago, I sent in an entry for your Club Call section of the magazine. Details about my club, City Centre Amiga Club, were printed in the December issue, for which I thank you very much. I'm not moaning about that, it's just that you promised a free subscription to the magazine for any of the groups published. Well, we haven't received one, and I'm writing to ask if this situation can be put right.

**Sean Corrigan, City Centre Club.**

Sorry you never received your subscription. Your first issue should be with you as I write this. What I would like to make clear though, is that the subscription isn't entirely free. We

expect clubs to keep us informed of their progress, otherwise we'll withdraw the sub. Only fair, I'm sure you'll agree.

## MATHS FRENZY

I am a university student and I am learning physics. As you might expect, there are lots of PCs in our school. On them we use a maths program called *Mathematica* which calculates some complex calculations (like integrals, differentiations, etc). After using this program fairly extensively on the PC and Macintosh computers, I wondered if Wolfram Research (the people behind the program) were planning an Amiga version, so I wrote to them to find out.

They replied that: 'At the current time we are not planning an Amiga version. We don't have enough interested people to make such a port viable. This may change in the future with more people, like yourself, writing in and expressing interest in a version.'

A computer lives as long as its users support it. Unfortunately, the Amiga is seen as a games machine and that annoys me. If Amiga users showed a bit of interest and wrote to Wolfram Research expressing their interest in this program, then maybe they would entertain producing an Amiga version of what is an excellent program.

I know I am not alone in this. There must be other Amiga owners interested in this subject. If you are, please write to Wolfram Research Europe Ltd., at: Evenlode Court, Main Road, Long Hanborough, Oxon, OX8 2LA, United Kingdom and express an opinion.

**Sinan Gurkan, Turkey.**

## GAMES FRENZY

I read your Which Computer? feature in the May edition of your magazine, and on the whole I found it very interesting and accurate. I especially liked the sarcastic comments about the 'idiot proof' Apple Mac Classic.

However, I thought that the games rating for the Acorn A3010 was a bit strange. It received a lower mark than the black-and-almost-white Mac Classic. It simply escapes me how a machine with a small blocky black-and-white screen can possibly outdo a 256-colour TV-compatible machine like the Acorn A3010. After all, I can't see *Lotus Turbo 2*, *James Pond*, *Populous*, *Zool*, *Nebulus*, *Oh No More Lemmings*, *SWIV*, *Paradroid 2000*,

*Gods*, *Hero Quest*, *Chuck Rock*, *Manchester United Europe* or *Battle Chess* on the Apple Mac. What the reviewer also seems to have ignored is the wide range of games that are only available on Acorn RISC machines such as *Chocks Away*, *Saloon Cars Deluxe*, *Technodream*, *Microdrive* and *Chopper Force* to name but a few. And does the Apple Mac have games like *Sensible Soccer*, *The Chaos Engine*, *Xenon 2* and *Speedball 2* under development? I think not! How can the Acorn A3010 come out joint WORST with the Atari Falcon of all machines? I think that the reviewer seriously underestimated the Acorn 32 bit gaming scene.

The Macintosh Classic II is a good business machine - *Claris Works*, *Pagemaker* and so on are very powerful packages, but for games it does not quite cut the mustard. A colour screen may help and a decent blitter chip or a fast RISC processor to take care of graphic operations would be of great benefit.

**Alistair Brown, Strathclyde.**

Yes, we got a bit carried away with the Classic's gameplaying capabilities, didn't we?! The Acorn is a far better games machine, although it's definitely not in the same league as the Amiga. The only reason why the Classic got such a hefty vote was because we all play *Spectra* over our networked Mac system. This is a 3D shoot 'em up which takes place in an enclosed arena, the idea being to blow each other to smithereens. Excellent fun and one reason why the magazine's late each month! But don't tell our publisher...

## CD CONSOLE

I'm getting very enthusiastic about the new Amiga CD console that's about to be released. Although I've only read a few details so far, things are looking good. I'm an Adventure and RPG fan, so the

## INSIDE INFORMATION

Sour grapes by Sega, wethinks, with the recent announcement of a 32-bit CD console due for launch... in 1995! Funnily enough, their announcement in trade paper, CTW, coincided with the unveiling of Commodore's new machine to the computer press. But all's fair in love and war and when they finally do launch their machine, they'll most likely find the market already overcrowded. What has to be a fantasy, though, is Atari's claim that they've nearly finished development work on a 64-bit console that'll come in at a competitive price. Well, it made us laugh!

possibility of only having to bother about one disc from now on instead of zillions of floppies has greatly gladdened my heart. It also means, I hope, that we'll see a bit of a renaissance with both genres.

The recent introduction of the SEGA MegaCD, and its multi-trillion advertising campaign, really shows up Commodore's lack of commitment or support for the CDTV and the A570 CD drive. It's like owners of the latter two machines have been shoved on a raft in the middle of the Pacific and told to row home without a paddle. The possibilities and potential of CD-ROM is unbelievable, and while I'm not happy with Commodore's efforts in supporting the end user, they have at least attempted to put CD technology across as a multimedia environment rather than SEGA's whoopee-where-has-my-intelligence-gone attitude. It makes me mad to think of the money they must be making out of their new machine. The CDs are

## THE FAR SIDE

By GARY LARSON



"Yes, yes, I know that, Sidney ... everybody knows that! ... But look: Four wrongs squared, minus two wrongs to the fourth power, divided by this formula, do make a right."

far too expensive – £49.99 for a CD which costs less than a quid to manufacture is highway robbery, but will bolster SEGA's coffers so that they can run even more TV ads and sell even more pieces of kit.

Think about it. A CD can hold a huge amount of information and the possibilities are endless as far as I can see. It's not just a platform for games. There's a real potential for revolutionising teaching. Discs could contain pictures, sounds, diagrams, animations, full motion video excerpts, practically anything to get the message across. You could pack the entire National Curriculum on one disc if you really wanted and it would be a much more fun way to learn than some boring text book and an even more boring teacher. Instead of blasting evil wizards to death in yet another bog-standard platform game, we could be learning and developing new skills in an interactive and fun way. When the new Amiga CD console is released and drives made available for the computers I hope software firms bear this in mind. Not that I want to be accused of being a dullard – I enjoy a good intelligence-zapping blast the same as anyone else, it's just that I'd hate the Amiga to be classed the same as a Megadrive as this would be the ultimate humiliation.

Allan McLeod McDonald, Preston.

## INSIDE INFORMATION

Acclaim know when they're on to a good thing. Fresh from the success of their never-ending line of WWF games, the firm have signed a new deal with the World Wrestling Federation which effectively ties up the licence until the end of the century. The deal covers all interactive media, including cartridge, arcade games and floppy disks. This has truly gladdened the hearts of everyone here at CU AMIGA as such was the outstanding quality of the last two Amiga games, that we can hardly wait to get our teeth into the next series of releases. Let's hope they come up with some BIG improvements.

Well, as you'll now know after reading this month's news pages, the CDTV is virtually history now that the CD AMIGA console has been launched. Fortunately, Commodore claim that 60 per cent of CDTV titles will be compatible with the new machine. I'm in total agreement with you about SEGA's Mega CD – I haven't seen a decent game so far. Great ads, though!

## HOW OLD'S DAN PART 2?

I've been doing a bit of research to find out how old Dan really is by re-reading all my old CU AMIGAs. Now, Dan joined CU in June 1990 (I think), so he's been with the mag more than three years. He's also mentioned that he's got a degree and a post-graduate diploma, so that's another four years at least. I then came across a piece in which he said that he's had a couple of years on the dole and also worked on a bicycle magazine. Toting all this up, you get a grand total of approximately 10 years.

Now, add that little lot onto the usual entry age to University (18) and you get the grand old age of 28. So that's my guess and I claim the free bundle of software.

Charlie Slicker, Manchester.

Close, but no tomato. Entries have ranged from 18 to (somewhat unrealistically) 48, but no-one's cracked it yet. Still, great piece of detective work. Maybe we'll have a winner next month.

# CLUB CALL

**Club Tropicana drinks are free... fun and computers, there's enough for everyone...**

## DISK AUSTRALIA

For a different perspective on the Amiga scene, you might want to take a look at Disk Australia, a 16-page magazine that comes with four supporting disks. Until recently, distribution has been limited to Australia, but there's now a growing international membership.

The four disks cover most aspects of the Amiga, from games through to the technical side, including DIY projects, hardware reviews, game cheats and various features. UK members can get the disks and mag for £7 per issue.

Contact: Disk Australia, PO Box 418, Cowandilla 5033, South Australia, Australia.

## NORWICH MASKED HEROES

What do you reckon on that name then? No, it's not the local balaclava helmet club, but a band of enthusiastic Amiga users (is there a difference?). All their correspondence is carried out via their own disk mag.

With no bias to any particular subjects, it caters for most enthusiasts. There are the usual articles on all things Amiga, with a few 'real world' features too, which help to break it up. To be frank, the standard of writing in the reviews is well below par, but as it's all very informal anyway, it doesn't really matter. Contact names and addresses are included on the disk, and there's a lot of encouragement for you to get off your bum and get involved. For £2.50 you can become a member, which gets you the current issue of the diskmag, and mailouts every now and then with news of forthcoming issues.

Contact: K. Frary, 22 Russell Avenue, Spixworth, Norwich, Norfolk NR10 3NY.

## NOTHING BUT AMOS

If a few pages in CU AMIGA every month isn't enough to satisfy your lust for AMOS info, take a

## NULL AND VOID

We are two Amiga owners in distress! maybe, just maybe, you can help!!

Recently, we parted with £9 of our hard-earned cash to buy a Null Modem cable. This wonderful device allows us to link up two Amigas via the serial port and play dual games on Lotus Turbo Challenge and Stunt Car Racer. These already incredibly good games were utterly transformed and we soon found ourselves battling it out to the death on Stunt Car racer and making three other drivers eat dust on Lotus.

Daniel Mortimer, Maidenhead.

Off the top of our heads, we could only think of *Falcon*, *Populous/Populous 2*, *Powermonger*

look at this new diskmag. It's dedicated completely to AMOS – it's even written in AMOS!

News, reviews, previews and tutorials account for most of the content. These are read from a simple but dull text viewer, which can also play music modules and display IFF graphics. Some articles are aimed at beginners, while others are written with more advanced users in mind. If you're the type who can go on about AMOS till the cows come home, you'll be in your element with this disk.

At the moment, NB AMOS is still in its first issue, but within a few months, it'll probably be twice the size, and twice the value. You can either buy issues separately for £2.50, or stump up the £24.00 annual subscription rate for 12 issues.

Contact: NB AMOS, 64 Western Avenue, Prudhoe, Northumberland, NE42 6PA.

## AMIGA USER GROUP INTERNATIONAL REGISTER

If you still can't find a club that's right for you, maybe you should get hold of the AUGI Register. Compiled by Computer and Design Services, it's a massive list of Amiga clubs that spans the globe. As well as the UK contingent, there are organisations from North and South Africa, Australia, Canada and Europe. The disk is available the address below for £1.50 (including post and packing).

Contact: Computer and Design Services, Dept PD, 24 Blackmoor Croft, Tile Cross, Birmingham. B33 OPE. Tel: 021 779 6368.

## AMOS X-TASY PD

As a club, X-TASY PD doesn't exist yet, but they're on the lookout for members. Already established as a PD library, X-TASY are trying to get hold of as many AMOS users as possible, and hope to set up a network of members who can swap code, sound samples, graphics and so on, and give each other advice when problems arise. If you fancy becoming part of the fledgling club (whether you're a beginner or an experienced user), get in touch with them pronto.

Contact: X-TASY PD, 6 Heysbank Road, Disley, Stockport, Cheshire, SK12 2BJ.

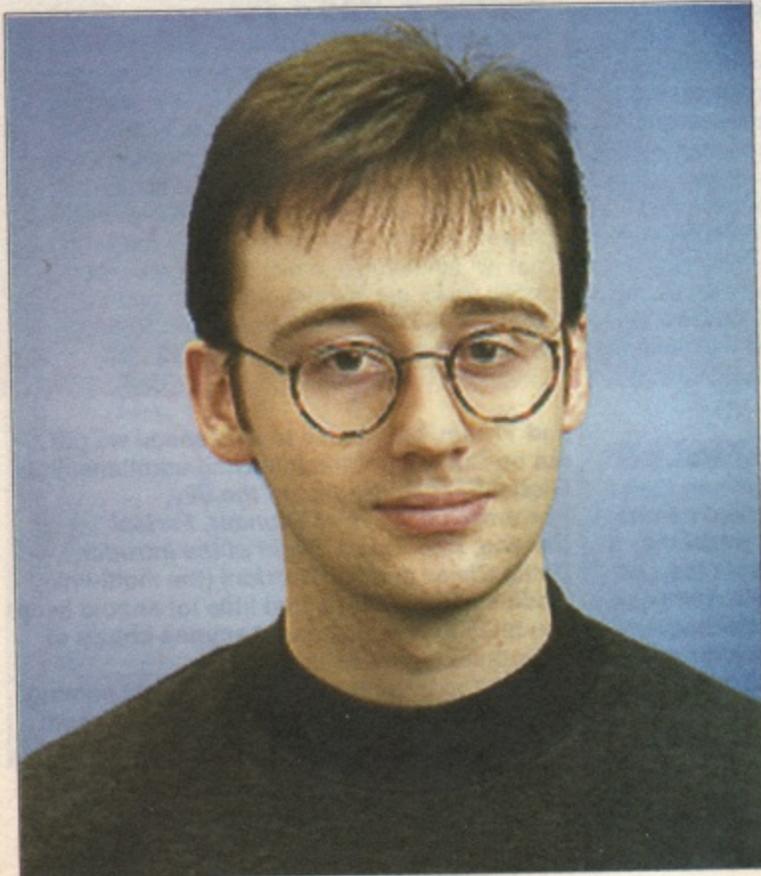
and *Vroom*, but thanks to a message we put out on Cix, we got the following additional list: *Global Effects*, *Knights of the Sky*, *Powerdrome*, *Days of Thunder*, *Perfect General*, *Robosport*, *Flight of the Intruder*, *Battle Chess* and *Air Warriors* (the multi-link modem game). There, that little lot should keep you busy for a while, and if anyone knows of any others, do let us know.

With the bottom of the page rapidly coming up to meet me, I'm just left with enough room to say keep those letters coming. We read each and everyone of them, and enjoy reading your thoughts on the magazine. Send your letters to: CU AMIGA, Priory Court, 30-32 Farrington Lane, London, EC1R 3AU. Ta!

# ROLE PLAYING RENAISSANCE?

**Recently developers have been steering away from porting PC adventure games onto the Amiga. Jon Sloan laments this change and asks whether the new Amiga CD32 console will change all that.**

Forever championing consumer rights, Jon Sloan has always had a dream that one day he'd work for Watchdog. It's not that he particularly likes the programme, it's just that he wants to get close enough to that annoying Lynn Foulds-Wood so he can stuff a dangerous toy down her throat.



I've been involved in the games scene for many years now, both as a consumer and, more recently, as a journalist. This duality has allowed me to gain insights into the workings of the industry that most games players simply don't have the opportunity to get.

## RPG FOR ME

As an ardent fan of adventure games I have long hovered over making a decision whether or not to buy a PC. It's not that I think that they're better machines, they patently are not, it's just that all the really great adventure games appear first on the PC. Recently Microprose released the fantastic *Legacy* on PC; it's received rave reviews in all the mags and I must say it looks wonderful. However, it's going to be many months before it hits an Amiga and even when it does there's no guarantee that it will even be half the size or half as good.

Another worrying trend is that many developers seem to be dropping the Amiga completely when it comes to new RPGs. Take the recent *Alone in the Dark* game from Infogrames. At first glance it's nothing too new – a third person perspective 3D adventure – but closer inspection reveals a game of stunning graphics and even better gameplay. It uses odd choices of camera angles and a forced perspective to generate an incredible amount of atmosphere. Our sister magazine *PC Review* rated it 9/10 which, on their marking scale, is unprecedented.

Unfortunately it won't appear on the Amiga. Even if that doesn't appeal to you what about the third game in the *Monkey Island* series? If any game epitomises fun adventuring that is it and it's been phenomenally successful on the Amiga, yet there are no plans for the third game to make it onto our favourite machine.

I'd like to know why! It's not that the Amiga has worse graphic capabilities. Now that we've got the AGA chip set there simply is no excuse. What about the sound? Again, base machine for base machine the Amiga outperforms any PC – you're looking at upwards of £80 just to install a decent sound board.

## BAD MEDICINE

Software houses have long argued that piracy has been one of the main reasons that games don't appear on the Amiga. Evidence the fact that the majority of PC games are hard disk installable, especially the adventures, yet many Amiga ones are not. They claim that it makes it easier to pirate a game when it is installable. But their reti-

cence in doing so has not stopped piracy has it? If you're worried about piracy you can still use ingenious manual or map based copy protection if you put your mind to it. Of course, the majority of PC-based adventures have to be installed on hard disk. It can be organised like this because PCs come with hard disks as standard. It wouldn't work in the Amiga market simply because, for the lower spec machines, hard drives are optional extras.

On that subject, I have spent many wasted hours of my time frantically fumbling for disk number 8 or 9 or whatever (all the time wishing I'd had the sense to save up for a hard disk). It seems to be an accepted convention in the adventure genre that games must come on multiple disks. Obviously, they involve complex plots and detailed graphics so you need a large amount of memory to store and run them. The down side is that we all have to live with multiple disk swapping. That wouldn't be so bad if programmers had the foresight to write games so that you didn't need to insert a disk just so the processor could access about 50 bytes of info before asking for the previous disk back.

## GET TO THE POINT

However, I do see light at the end of the tunnel (or dungeon). Let me pose a little question – what will happen to adventure games if there existed a machine with AGA capability with a virtually infinite storage capacity that needed one disk? The logical answer would be that they will explode. Well, we now have that machine, launched towards the end of August the CD32 could herald a new age for adventure games. Think about it – 256,000 colours on screen, 68020 processor, single disk with huge storage capacity – and you must see that this is the machine that Amiga adventurers have been waiting for.

## BACK TO THE FUTURE

There are hundreds of PC adventure games already in existence that could very easily be ported across onto the CD. That's an amazing backlog of games to start on. Plus, there are dozens of new games in production. Best of all I have it on good authority that CD pricing is going to average out at about £29.99. Compare that to PC games where the average price is now closer to £40 or £45. And the new console is going to be priced at £299 – less than one third of the price of a decent spec PC.

Anyway, the real point of this article is a plea to developers everywhere. Please realise the potential of the CD, support it, develop for it and, for me, write a few decent adventures. Forget the platform romps, ignore the beat 'em ups – they're all short lived phenomena anyway – an adventure lives for longer and gives you the potential to snare older players with a greater disposable income. Think about it! **CU**

DISTRIBUTION  
ENQUIRIES  
WELCOME

# Don't you think these images speak for themselves !

ONLY  
**£99.95**

Jason Holburn, Amiga Format  
December 1992 issue..

"Vidi Amiga12 ... The best  
value digitiser on the market !"

Mat Broomfield, CU Amiga  
January 1993 issue.

"Vidi 12 gives unequalled  
results for anything within  
£200 of its price....Forget  
the competition. If you  
can afford Vidi 12, buy it.  
If you can't afford it,  
borrow it from someone  
who can !"



Alan Puzey, Amiga User Int.  
January 1993 issue.

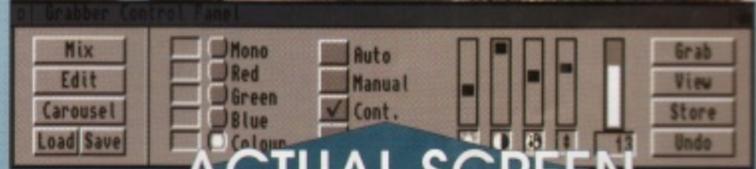
"..I compared Rombo and  
Digiview digitisers  
extensively. To summarize  
them...I judged the Rombo  
results to be more  
consistent and have the  
edge on quality !"

If you want the ultimate quality  
images at a price you can afford  
then there is only one  
choice...Vidi Amiga 12. The  
Video Digitiser that all others  
follow !

Now supports all new A1200  
modes up to a maximum  
resolution of 704 x 566, has  
improved animation features  
with enhanced user interface.



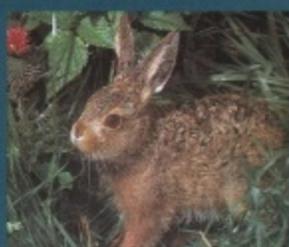
New Ver. 2.00  
software with  
AGA chipset  
support.



ACTUAL SCREEN

# VIDI-AMIGA 12

- ACTUAL PRINTOUT - ACTUAL PRINTOUT- ACTUAL PRINTOUT - ACTUAL PRINTOUT -



- ACTUAL PRINTOUT - ACTUAL PRINTOUT- ACTUAL PRINTOUT - ACTUAL PRINTOUT -

## THE WORLDS BEST SELLING AMIGA DIGITISER

For more Information call: (44) 0506 414631 or Fax (44) 0506-414634  
Rombo Productions Ltd. Kirkton Campus, Livingston, SCOTLAND, (UK), EH54 7AZ.

# THE EYES HAVE IT!

THE CRITICS HAVE CAST THEIR VOTE -  
FLASHBACK IS THE WINNER

“ Flashback...  
outperforms Another  
World - it's by far the  
deeper game of  
the two ”

CIARAN BRENNAN  
Games Retailer (UK)

“ This game has no  
equal in its field ”

DOMINIC DIAMOND  
Gamesmaster TV Series (UK)

“ Just awesome!...  
best Mega Drive  
game I've ever seen  
or played! ”

PAUL GLANCEY  
Megatech (UK)

“ ...there's over  
two-thirds of the  
year left and I can  
honestly state that  
Flashback is the  
game of the year! ”

SIMON BYRON  
The One Amiga (UK)

# FLASHBACK



available for your Sega Mega Drive,  
PC & Compatibles and Amiga

