The 4000 Answers
Dealer Information Binder

ANNOUNCING!!!
ANNOUNCING!!!
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The *AMIGA* Dealers' Answer to *all new* *COMMODORE*® products, pricing, system configurations and more!

Commodore®
AMIGA®

The 4000 Answers
### Dealer Information Binder

Introduction

Obviously, we couldn't print *all* 4000 answers in this binder, but we *can* print the most important ones.

Each chapter in this binder highlights one of the new products we're announcing -- you'll find all you need to know in the collateral we've included -- like spec sheets, Press Release information, pricing, system configurations and much more!

So sit back and take in all the new and exciting things happening at Commodore!

C= ® Commodore®
AMIGA®

AMIGA *A1200*

AMIGA M1438S
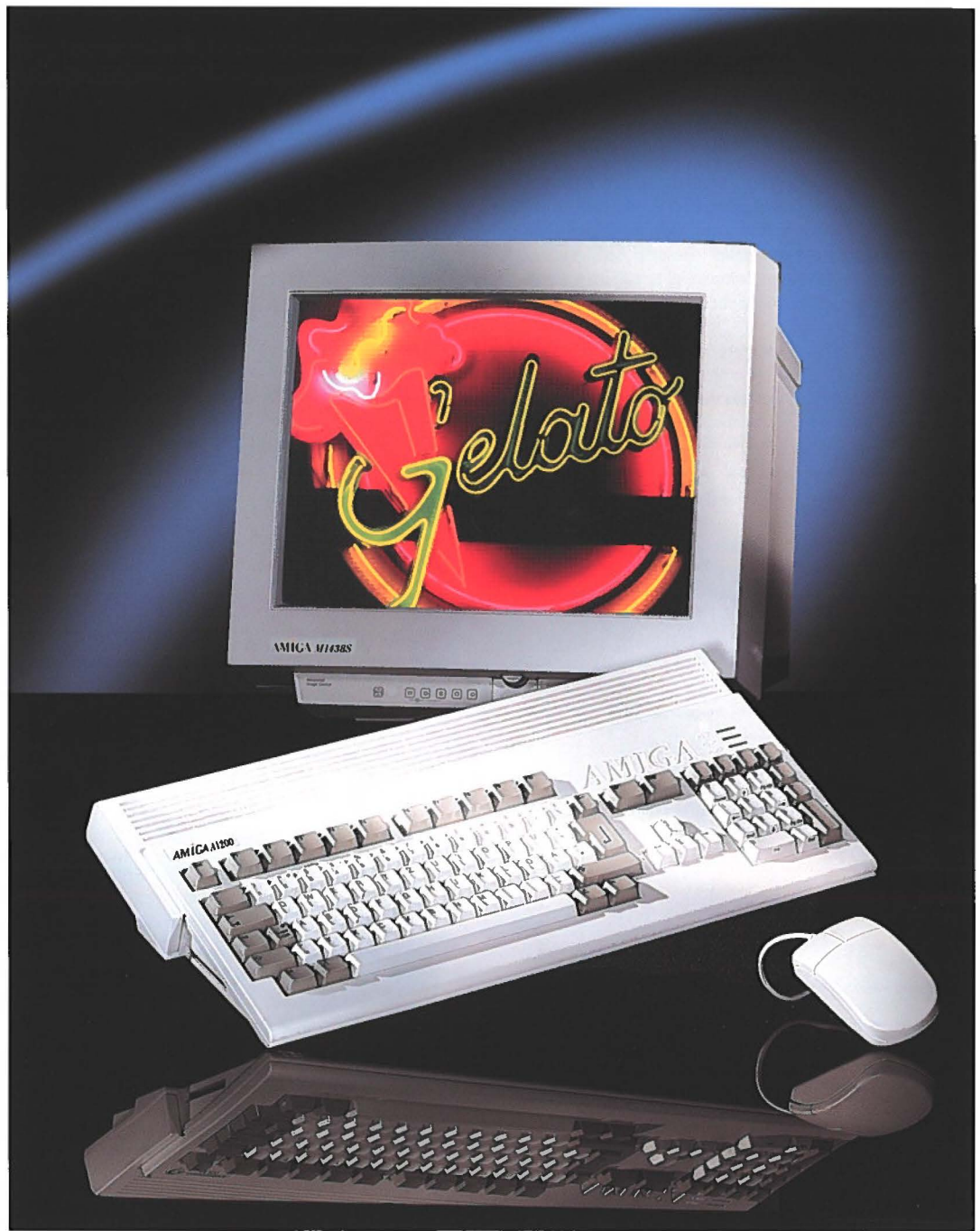
AMIGA A1200

Animation
Video
Multitasking

AMIGA Technologies GmbH

AMIGA *A 1200* – MULTIMEDIA RIGHT FROM THE START

Why has the AMIGA™ been the best selling home computer in Europe for the last seven years?

Well, industry standard features like a PCMCIA port for optional SCSI devices like CD-ROMS, scanners, DAT backup devices, hard disk drives and memory modules. A Serial port for those with serial based printers and modems for surfing the electronic world of the Internet and Compuserve™.

A RGB Video Port provides an Interface to monitors for crisp high quality display or Genlocks (for creating and editing home video's). However, with the built-in modulator a colour monitor is not essential as the supplied RF lead works with most domestic television sets. Two audio sockets enable connection to hi-fi systems or optional speakers for enhanced stereo sound. Use the Parallel port to connect dot matrix, colour inkjets and laser printers.

Fact, games and productivity software costs less on the AMIGA. Plus AMIGA users are not restricted to"just" playing games. Writing letters, school projects and controlling the homebudget using the integral keyboard is a breeze.

The AMIGA desktop (what you see on the screen) or GUI (graphical user interface) was designed to be easy to learn and use.

Multitasking (being able to run several applications at the same time) and **Plug'n'Play** (fit and forget) have become new catch phrases to non-AMIGA owners. Fact is, AMIGA users have **always** had these features from the very first AMIGA 1000 in 1985.

Compared to higher priced PCs that require optional sound and video cards, the AMIGA represents great value for money. With millions of AMIGA's sold in the U.K., it is hardly surprising that the AMIGA is the best selling home computer.

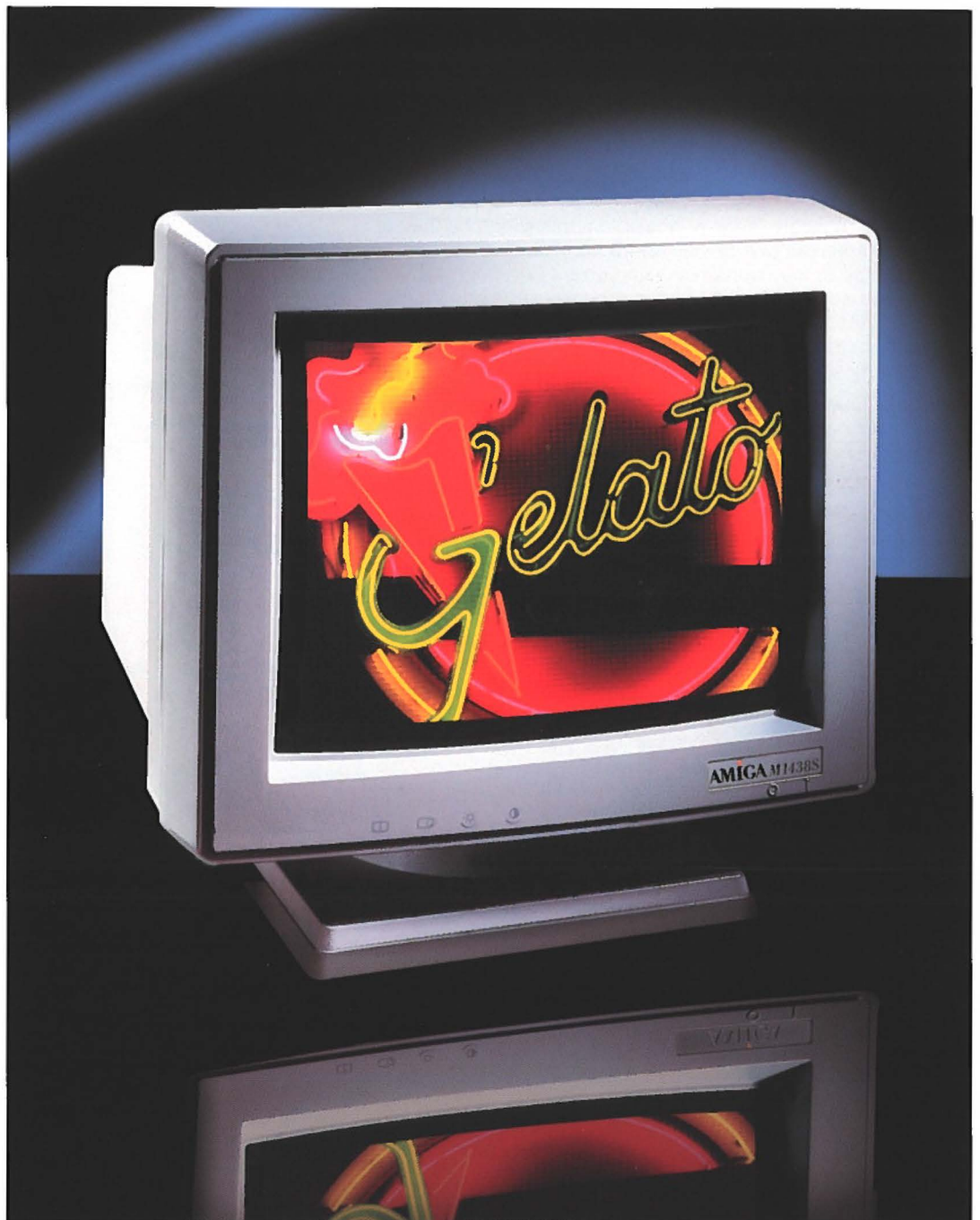### "AMIGA computers for people who want more than just a PC."
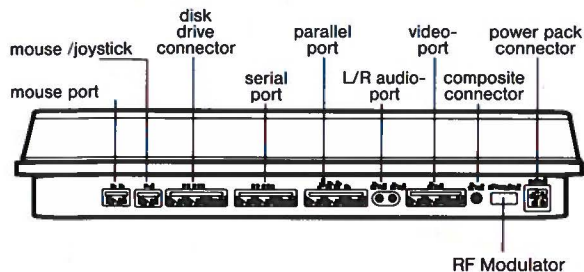
Processor	· Motorola MC68EC020
Speed	· 14MHz
Memory	· 2 Mbytes as standard (configured as CHIP RAM) · Expandable by up to 4 Mbytes of 32-bit FAST RAM in the CPU slot and additionally by 4Mbytes of 16-bit FAST RAM via PCMCIA slot.
Custom Chips	· Advanced AMIGA multi-chip co-processor system (for video, graphics, sound and DMA)
External Interfaces	· 2 Mouse/Joystick · 1 Serial · 1 Parallel · 1 PCMCIA 2.0 (16-bit, 68-pin industry standard) · 1 Video (RGB Analog/Digital) · 1 Colour composite video · 2 Stereo audio outputs · 1 Floppy disk drive (supports up to 2 drives) · 1 RF port for connection to a television
Internal Interfaces	· 1 AT IDE 44-pin hard disk interface · 1 CPU local bus, 150-pin edge connector (for memory cards, accelerator cards etc...)
Graphic Modes	· Advanced AMIGA (AA) chip-set produces resolutions ranging from 320 x 256 to 1280 x 512 (more with overscan, including 800 x 600). · Horizontal Scan Rates: 15.6 KHz to 31.5 KHz · Vertical Scan Rates: 50 Hz to 73 Hz (not all modes available on non-multiscan monitors)
Colour Palette	· 16.7 Million colour palette. 2 to over 640.000 user definable colors displayable on screen
Sound	· Four channel stereo sound · 8-bit D/A converters
Keyboard	· Integral, 96 keys; international · 10 Function Keys · 4 cursor keys arranged in inverted T layout · Numeric Keypad
Mouse	· 2-button opto-mechanical, supplied as standard
Disk Drives	· 1 Floppy disk drive as standard (880K capacity) · Up to 2 external floppy disk drives via external port · provision for optional internal 2.5" AT/IDE hard disk drive
Software	· AMIGA DOS 3.1 Multitasking Operating system · includes CrossDOS ® (MS-DOS ® file transfer utility)
Dimensions	· Approx. 490 mm x 70 mm x 250 mm (W x H x D)
Power Supply	· Switched mode, 25 Watts

disk
drive
connector

mouse /joystick

parallel
port

video-
port

power pack
connector

mouse port

serial
port

L/R audio-
port

composite
connector

RF Modulator

AMIGA

AMIGA Technologies GmbH
Berliner Ring 89
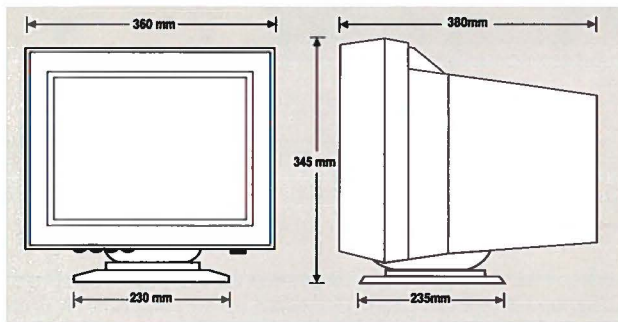D-64625 Bensheim
Germany

AMİGA *M1438S*

Animation
Video
Multitasking

AMİGA Technologies GmbH

AMIGA *M1438S* –14" STEREO COLOUR MONITOR

The AMIGA M1438S is a very versatile 14" monitor. It suits a whole range of possible applications be they of a commercial or a private character. The monitor was developed in accordance with current European standards and is manufactured in a quality certified to meet DIN ISO 9001 regulations. AMIGA M1438S is equipped with highly efficient electronic components such as a high-resolution tube for crystal-clear pictures.

The monitor has many ergonomic characteristics: low power consumption, non-glare screen, high repetition frequency. Swivel base and low radiation in accordance with MPR II.

Real autoscanning (automatic selection of the correct input frequency) makes the monitor compatible to all standard video sources.

The AMIGA M1438S is already equipped with an AMIGA compatible connecting cable. It can represent all video modi of A1200 and A4000T. Two stereo speakers with amplifier are installed for sound output.

Highlights:
- high resolution
- high-quality picture
- real autoscanning
- analog inputs
- compatible with Amiga 1200 and 4000T
- low radiation in accordance with MPR II
- versatile applications in office and industry environments and for games
- European production quality
- Stereo

Screen	• 14" (355,6 mm) diagonal antiglare • 0.28mm dot pitch • Short persistance (P22) phosphor tube • 57 % light transmission • Saddle/saddle deflection coil
Maximum Resolution	• Horizontal 800 dots non-int., 1024 interlaced • Vertical 600 lines non-int., 768 interlaced
Bandwidth	• Video bandwidth 40 Mhz
Frequencies	• Horizontal 15-40 kHz • Vertical 45-90 Hz
Power supply	• 220/240 V, 50/60 Hz • Power consumption <65W
User controls	• Mains on/off • Contrast • Brightness • Vertical height • Horizontal position • Volume
Inputs	• Analog RGB via 15-pin 'D' • 0.7V 75 ohm • Separate H and V sync • Stereo cinch audio inputs
Audio	• Direct connection to Amiga audio input • Stereo amplifier • Two loudspeaker built in
Physical	• Dimensions 345 x 360 x 380 mm (H x W x D) • Weight 13.5 kg packaged • MTBF 35,000 hours 25°C, excl CRT • 5°C-40°C operating

AMIGA

AMIGA® 1200 PERSONAL COMPUTER

The Amiga 1200 is Commodore's newest personal computer which uses the Advanced Graphics Architecture™ chip set. The A1200 is a lower cost member of the versatile and powerful Amiga 4000 family.

The 32-bit Motorola® processor working in conjunction with the custom AGA chip set provides the Amiga 1200 with exciting new features and user benefits at a lower cost than many other personal computers.

Animation and images come alive in a variety of screen modes which include the spectacular HAM8 modes. High resolution displays in up to 256,000 simultaneously displayable colors from a palette of 16.8 million make the A1200 ideally suited for graphics and video intensive applications.

The A1200 has an impressive number of video display outputs including RGB analog and digital, VGA, color composite and RF modulated. The AGA hardware enhancements provide smooth display updates and crisp screen characters without "jaggies."

VGA screen resolutions are available in both interlaced and non-interlaced modes. Hardware scan doubling provides flicker-free display on a variety of multiscan monitors. The Amiga 1200 supports screen modes that are compatible with the standard NTSC horizontal scan rate. No additional video cards are required.

Local bus expansion capabilities are provided by an internal edge connector. The Amiga 1200 CPU bus connector supports accelerator boards, fast RAM expansion, PC emulators and other options that must have direct access to the Amiga system bus.

The PCMCIA "credit card" slot is a standard, general purpose expansion connector. The PCMCIA card slot can support a wide range of expansion options such as additional system RAM, modems, ROM card applications, networking hardware and SCSI adapters.

The Amiga 1200 provides exceptional personal computing power and performance for home or business - at a price that makes it easy to own.

AMIGA 1200 FEATURES

- Advanced Graphics Architecture™

- 256,000 simultaneous colors from a palette of 16.8 million available

- Hardware Scan Doubling for flicker-free display on 31 kHz monitors

- Backward compatibility with Amiga Enhanced Chip Set

STANDARD AMIGA FEATURES

Features integrated into the system architecture and supported by the system software

- Advanced Custom Processors for DMA, Video, Graphics, Sound and I/O Control

- NTSC Video Horizontal Scan Rate Compatibility

- Multitasking Operating System

- 8-bit digital sound

- Keyboard and Mouse included with system

CPU

- 14.32 MHz 68EC020 NTSC
- 32-bit data path
- 24-bit address space

Memory and Expansion

- Up to 2 MB 32-bit Chip RAM
- Optional Battery-backed Real-time Clock
- Internal 150 pin CPU-slot edge connector
- Supports PCMCIA Standard 2.0 Memory and I/O cards
- System can support 10MB

Software

- 512 KB 32-bit ROM, can support 2 MB
- Includes PCMCIA code
- AmigaDOS™ 3.0 Multitasking Operating System
- Supports programmable resolutions
- Supports outline fonts
- Localized for multiple language/countries
- CrossDOS MS-DOS® file transfer utility

Disk Drives

- Built-in slimline 3.5-inch disk drive (880 KB formatted)
- Optional 2.5in form factor IDE Hard Disk Drive
- Hard Drive models pre-formatted and pre-loaded with system software and utilities

Mouse

- Opto-mechanical
- 2-button design

Interfaces

- Keyboard
- Mouse/Joystick/Lightpen/Tablet ports (2)
- Serial (RS-232)
- Parallel (Centronics)
- Video (RGB analog or RGB digital)
- Color Composite and RF Modulated Video
- Right and Left stereo audio
- External floppy disk drive port
- Internal AT IDE port
- PCMCIA 2.0 Standard Slot
- External Expansion Port

CPU Expansion BUS

- 150-pin Local Bus edge connector supports
  - High-speed 32-bit RAM expansion
  - Coprocessor expansion
  - CPU accelerators

Keyboard

- Full-size, integral keyboard
- 96 keys, including 10 function keys
- Separate numeric keypad
- Separate cursor keys (inverted "T" layout)

Sound

- 8-bit audio with four voices configured as two stereo channels
- Built-in sound buffer up to 800 KB nominal
- 6-bit volume

Graphic Modes

- AGA custom chip set produces resolutions ranging from 320x200 to 1280x400 (more with overscan), including 800x600
- NTSC and PAL video resolutions
- Color palette of 16.8 million colors
- 2 to 256,000 user definable colors displayable on-screen

Video Display Output

- Works with RGB analog, VGA or Multiscan Monitors (not all modes supported with non-multiscan monitors)
- Horizontal scan rates 50Hz-72Hz
- Vertical scan rates 50Hz-72Hz
- NTSC Color composite output
- RF output for standard TV

Dimensions

- 3"H x 18.5"L x 9.5"W

Weight

- Approx. 8 lbs.

Power Requirements

- 110 volt/60Hz 23 watts
- External power supply

A1200 CONFIGURATIONS

Amiga 1200 Personal Computer

- Motorola 68EC020 processor
- 2MB chip RAM
- Internal 880Kb 3.5" Floppy Drive
- Integral keyboard
- Two-button mouse
- Operating System software and utilities
- Internal IDE hard drive connector

The 4000 Answers
Dealer Information Binder

Chapter 1

Q: "How can I get a palette of 16.8 million colors on my *AMIGA?*"

A: *"Introducing the Amiga 4000!"*

Commodore®
AMIGA®

For Immediate Release
September 24, 1992

Contact: Tom Shepherd
Director of Marketing
(416) 499-4292

COMMODORE INTRODUCES NEXT GENERATION AMIGA 4000

AGINCOURT, ONTARIO --   Commodore Business Machines Ltd. today introduced the Amiga® 4000, the company's revolutionary new premier multimedia computer. The Amiga 4000 marks the company's most significant new technology advancement in its Amiga line since the product's introduction in 1985.   In addition to the Amiga 4000, Commodore announced several other significant product introductions including the Amiga 600 and 600HD, AmigaDOS™ Release 3 Operating System, A570 CD-ROM Drive, and AmigaVision™ Professional Authoring System.

Doug MacGregor, President and General Manager of Commodore Business Machines Ltd. commented, "these product announcements exemplify Commodore's continued commitment to offer computers with the best price/performance ratios in the computer industry today. We are confident that these products, particularly the Amiga 4000, will keep Commodore at the forefront of multimedia technology and enable us to continue our aggressive push in the multimedia marketplace."

This powerful new machine features Commodore's Advanced Graphics Architecture™ custom co-processor chip set that enables users to display and animate graphics in multiple resolutions at up to 256,000 colours from a palette of 16.8 million. The new hardware features are driven by AmigaDOS Release 3, the newest version of Commodore's multitasking operating system, in combination with the machine's main processor, the Motorola® 68040. While this new version of the operating system takes advantage of the latest hardware features, it also maintains backwards compatibility with Amiga software not written specifically for the Amiga 4000.

The Amiga 4000 will come standard with a 120MB hard drive, 6MB of memory, a dual speed high-density floppy drive, and CrossDOS which enables users to read and write to MS-DOS® formatted floppy and hard drives. Other key multimedia features include: a dedicated slot for video devices; selectable NTSC scan rate compatibility; four voice dual-channel digital audio;

up to 8 sprites, enabling high speed animations; and full hardware video overscan. The Manufacturer's Suggested List Price for the Amiga 4000-040/120 is $4,595.00.

Commodore International Limited, through its operating subsidiaries around the world, manufactures and markets personal computers to customers in the professional, government, education and consumer market sectors. The company has four product lines: Amiga multimedia computers, MS-DOS PC compatibles, C64 computers and CDTV.

Commodore was established in 1958 in Toronto and now has worldwide revenues of over $1 billion with over 3000 employees in 43 countries. Commodore-owned manufacturing facilities are located in West Chester, U.S.A., Hong Kong, and West Germany. The company is listed on the New York Stock Exchange.

For more information on Commodore's products and corporate background, please contact Tom Shepherd, Commodore's Director of Marketing at (416) 499-4292.

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CE Commodore

4000 REASONS TO OWN AN AMIGA® CONTEST

Spectacular graphics!

        Sensational animation!

                Superb video!

Commodore's users have many reasons for using an Amiga system for both professional and non-professional applications. Now Commodore® would like to give all users an opportunity to share their reasons for using an Amiga through its "4000 Reasons to Own An Amiga Contest."

Commodore will award an Amiga 4000 to the Amiga user with the best overall entry. The second prize winner will win an Amiga 600 and the third prize winner will receive AmigaVision™ Professional, Commodore's new authoring software. Details of the contest and entry form are attached.

Contest entry forms are available at Commodore authorized reseller locations while supplies last.

Commodore Business Machines, manufactures and markets a complete line of Amiga computers and peripherals for the business, education, government and consumer markets. Commodore® is a trademark of Commodore Electronics Limited. Amiga® and AmigaVision are trademarks of Commodore-Amiga, Inc.

TIMING AND PROGRAM DURATION

All entries must be postmarked by October 23, 1992. Winners will be announced at the COMDEX show in Las Vegas on November 16, 1992. Winner need not be present at the show in order to win.

MERCHANDISING SUPPORT

- Group Mailing
- Notices posted to nets and BBSs 9/25/92
- Insert in all fulfillment pieces for magazine and 800 number kits
- National Public Relations announcement

CONTEST RULES

★ Commodore is looking for the best reason, in 25 words or less for using an Amiga in the following applications:

- Video
- Entertainment
- Presentations
- Education
- Interactive
- Scientific/Medical
- Miscellaneous

★ Amiga users of all ages and all professional and non-professional uses are eligible.

★ Contest entries will be cataloged and judged. Only one entry person and one application per entry is allowed. Entries will be judged by Commodore staff and a panel of independent experts. Proof of ID is required for the winner(s). Non-winning entries will not be acknowledged.

★ All entries must be postmarked by October 23, 1992. Winners will be announced at the COMDEX show in Las Vegas on November 16, 1992.

★ Entries will become the property of Commodore, which reserves the right to use or publish all entries received without further release or authorization. Winners acknowledge that Commodore has the right to publish their name and photo in publicity relating to this contest and/or Commodore's products.

★ No entries will be returned. Copies of the entry should be kept.

★ Contest is open only to residents of the United States and Canada.

★ Prizes awarded to the winner will be shipped within 30 days of notification. Commodore will pay all shipping charges. Winners will be responsible for all taxes.

★ Contest is void where not permitted or modified by law.

The 4000 Reasons to Own An Amiga Contest

Marketing Opportunities

The introduction of the Amiga 4000 has stirred tremendous interest in the Amiga user community. Commodore resellers can participate in the excitement generated by the announcement of the Amiga 4000, A600, A570 and AmigaVision Professional by getting users involved in the *4000 Reasons To Own An Amiga Contest.*

Current users, user groups members and other individuals are quick to tell why they chose the Amiga as their personal computer. The *4000 Reasons Contest* gives Amigaphiles with interesting applications a chance to win an Amiga 4000 and 1960 monitor or one of Commodore's other hot new products. Resellers can use the contest opportunity to stimulate interest in new products and gather marketing information about the current user base.

4000 REASONS TO OWN AN AMIGA

Commodore Business Machines, Inc. is pleased to offer a chance to win a new *AMIGA 4000* or one of two other "Hot" new products from Commodore® by entering our *"4000 REASONS TO OWN AN AMIGA CONTEST."*

Grand Prize: AMIGA 4000 System: 120MB HD; 4MB RAM; 1960 Monitor (Approx. Retail Value: $5,350)
Second Prize: AMIGA 600HD with: 40MB internal HD; 1MB RAM; 1084S Monitor (Approx. Retail Value: $1,250)
Third Prize: AmigaVision Professional (Approx. Retail Value: $495)

Please send entry forms to:
                    Commodore Business Machines Inc.
                    Attention: *4000 REASONS CONTEST*
                    1200 Wilson Drive
                    West Chester, PA 19380

Name: _____
Address: _____
City: _____ Province: _____ Postal Code: _____
Daytime Phone: (____) _____ Evening Phone: (____) _____

Application Categories (Please check one): ☐ Video   ☐ Entertainment   ☐ Presentations
☐ Scientific/Medical   ☐ Education   ☐ Interactive   ☐ Miscellaneous

Model of Amiga owned/used: _____ Date Purchased: _____

I primarily use an Amiga at: ☐ Work   ☐ Home   ☐ School

MY REASON FOR OWNING AN AMIGA IS (25 words or less): _____
_____
_____
_____
_____

CONTEST RULES:

1. Commodore is looking for the best reason, in 25 words or less, for using an Amiga in the following applications: Video, Entertainment, Presentations, Interactive, Education, Scientific/Medical, Miscellaneous Applications. The reasons are to be written on the entry form above. No purchase is necessary.
2. Amiga users of all ages and all professional or non-professional uses are eligible.
3. Only one entry per person and one application per entry. Proof of ID is required of the winner(s).
4. All entries must be post-marked by October 23, 1992.
5. Winners to be announced at the COMDEX Show in Las Vegas on November 16, 1992.
6. Employees of Commodore Business Machines, Inc., Commodore Electronics Ltd., Commodore International Ltd., their advertising and promotional agencies and their immediate families are not eligible to enter this contest.
7. Entries will be judged by the staff of Commodore and a selected group of independent experts.
8. Entries will become the property of Commodore, which reserves the right to use or publish all entries received without further release or authorization. Winners acknowledge that Commodore has the right to publish their name and photo in publicity relating to this contest and/or Commodore's products. No entries will be returned, so please make a copy of your entry.
9. Contest is open only to residents of the U.S. and Canada.
10. Prizes awarded to winners will be shipped within 30 days of notification. Commodore will pay all shipping charges. Winner(s) will be responsible for all taxes.
11. Non-winning entries will not be acknowledged.
12. Void where prohibited.

The Commodore®/Amiga®

Amiga® 4000 MultiMedia Computer
Introduction Program

TARGET MARKET: The A4000 is ideal for multimedia users who require the speed of the 68040 and graphics performance of the AGA chip set to produce exciting video effects, presentations, training programs, or interactive kiosks.

FEATURES: Advanced Graphics Architecture™ utilizing AGA Chip Set and Motorola® 68040 Processor, 256,000 simultaneous colours from a palette of 16.8 million available, Hardware Scan Doubling for flicker-free display on 31 kHz monitors, upward compatibility with Amiga Enchanced Chip Set.

| Product	Product Number	Suggested Retail	Dealer Cost
Amiga 4000	4040 120 0	$4,595.00	$2,995.00

COLLATERAL:

> Dealer Program Announcement
> Press Release
> Specification Sheet
> Extensive Advertising Program (U.S. and Canada)
> P.O.P. Support

PROMOTION: Until September 30th, dealers who purchase two A4000 units, one to show - one to go, will receive a *FREE 1960 Monitor* for their demo unit.
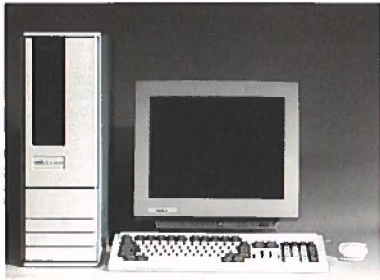
All standard terms and conditions apply

AMIGA *A 4000 T*
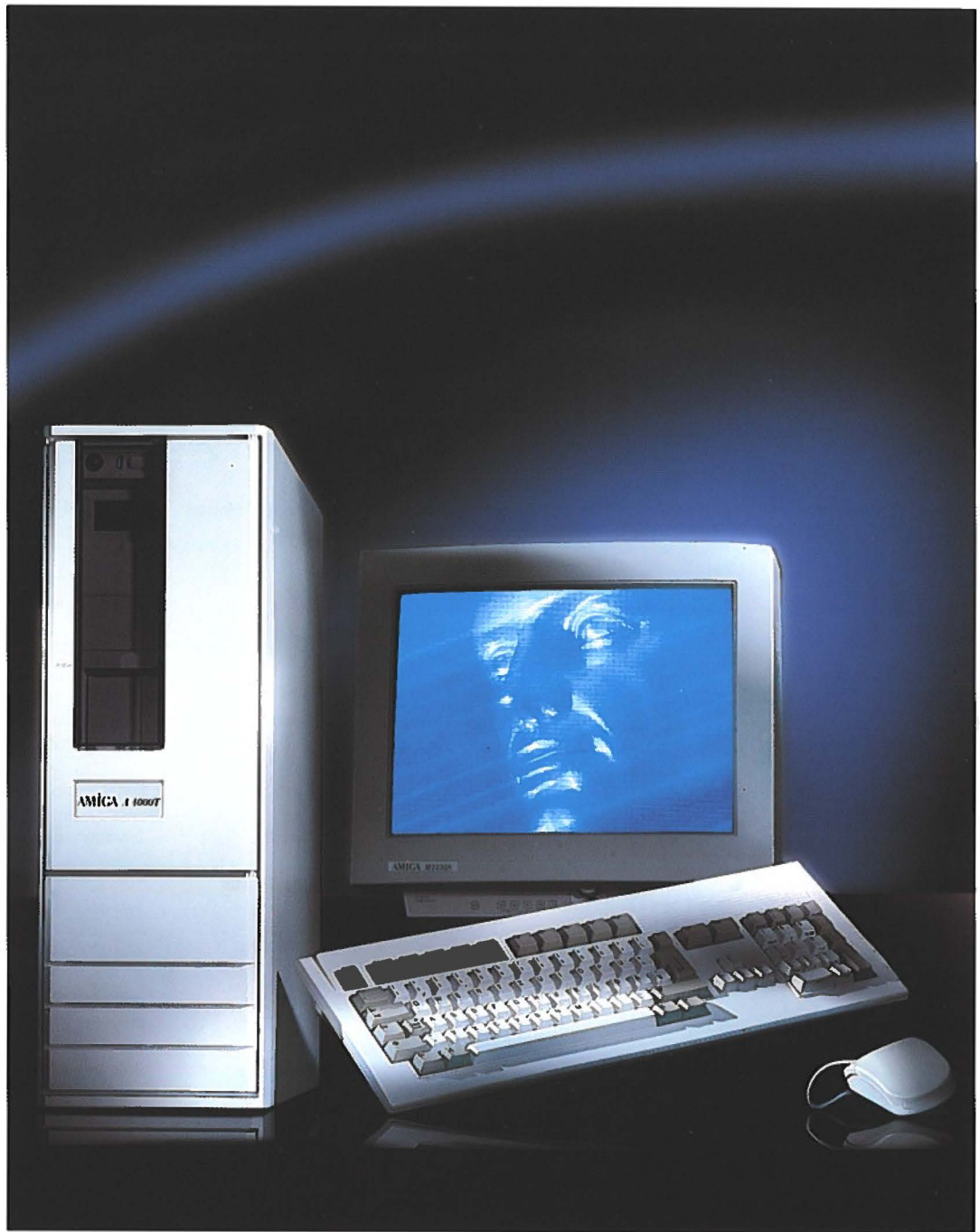
Animation
Video
Multitasking

AMIGA Technologies GmbH

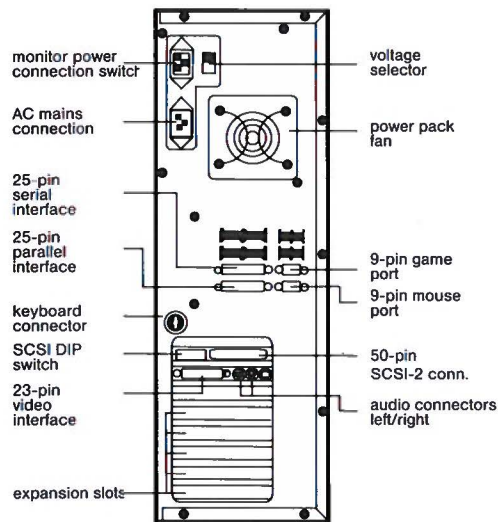# AMIGA *A 4000 T* – MACHINE POWER THAT MAKES MULTIMEDIA A TOTAL EXPERIENCE

Excellent graphics, animation, video, sound and still the only affordable computer that offers true multitasking makes AMIGA™ THE number one choice for multimedia authors and publishers. High end AMIGA's have been providing solutions for professional users who require non-linear editing facilities. The AMIGA has many optional low cost high end video cards and professional editing software.

The AMIGA 4000T has five drive bays, six expansion slots. Full support for all SCSI-2 functions via the internal and external SCSI connectors. The AMIGA 4000T offers "AutoConfig™" fit and forget technology, with Workbench 3.1 as standard.

If you take Multimedia seriously, take a look at the new AMIGA 4000T today.

**"AMIGA computers
for people who want more than just a PC."**

monitor power connection switch
voltage selector
AC mains connection
power pack fan
25-pin serial interface
25-pin parallel interface
9-pin game port
9-pin mouse port
keyboard connector
SCSI DIP switch
50-pin SCSI-2 conn.
23-pin video interface
audio connectors left/right
expansion slots

CPU/Speed	· Motorola MC68040/ 25MHz (on removable module) · Optional: Motorola MC68060 / 50MHz
Memory	· 6Mbytes (2 MB CHIP RAM/ 4 MB FAST RAM) · expandable up to 18 Mbytes on motherboard · expandable up to 2 Gbytes via memory cards
Internal Interfaces	· 1 SCSI-2, supports SCSI-2 FAST Mode, · 1 16-bit AT/IDE hard disk interface · 1 Floppy disk interface
External Interfaces	· 1 Serial, 1 Parallel, 2 Mouse/Joystick, 1 Keyboard, 1 Video (RGB), 2 Stereo audio outputs and 1 SCSI-2
Drive Bays	· 3 horizontal 5.25" half height (2 available) · 2 vertical 5.25" half height · 1 vertical full height (internally accessible only)
System Slots	· CPU Local Bus (occupied by processor module) · 5 Zorro II/III (100-pin) AMIGA expansion slots · 2 AMIGA Video slots (in-line with Zorro slots) · 4 PC/AT expansion slots (3 in-line with Zorro slots)
Graphic Modes	· Resolutions ranging from 320 x 256 to 1280 x 512 (more with overscan, including 800 x 600). · Horizontal Scan Rates: 15.6KHz to 31.5KHz · Vertical Scan Rates: 50Hz to 73Hz (not all modes available on non-multiscan monitors)
Colour Palette	· 16.7 Million colour palette. 2 to over 640.000 user definable colours displayable on screen
Sound	· Four channel, 8-bit stereo sound · Internal Speaker
Keyboard	· Detachable, 94/96 key keyboard
Mouse	· 2-button opto-mechanical, supplied as standard
Disk Drives	· 1 Floppy disk drive as standard · 540 MB SCSI / 1 Gbyte SCSI Hard disk drive · Additional Hard disk drives supported via SCSI-2 and AT/IDE interfaces
Software	· AMIGADOS 3.1 Multitasking Operating system · Includes CrossDOS® (MS-DOS® file transfer utility)
Features	· Built-in battery backed real time clock/calendar · Security keylock · External Mute switch and LED indicator
Dimensions	· Approx. 536mm x 179mm x 520mm (H x W x D) · Rests 270 mm Wide
Weight	· 15.9 kg
Power Supply	· 240 Volts, 200 Watts

AMIGA

AMIGA® 4000 MULTIMEDIA COMPUTER

The Amiga 4000 is the first member of an all new generation of Amiga multimedia computers. With the introduction of the Advanced Graphics Architecture™ Chip Set the Amiga 4000 sets new and affordable benchmarks for exciting graphics, animation and video.

From its inception the Amiga 4000 was specifically designed to meet the demanding graphic and video processing power required for multimedia computing.

High resolution graphics simultaneously displayed in up to 256,000 colors from a palette of over 16.8 million provide life-like images and add spectacular color to presentations and interactive applications.

The Amiga 4000 Advanced Graphics Architecture retains compatibility with the Amiga Enhanced Chip Set and Release 2 System Software. An ECS compatibility mode allows many existing self-booting programs to be run without modification.

Multiple ports and internal Amiga and PC slots allow you to expand the Amiga 4000 with a wide variety of peripherals. The custom CPU expansion slot gives you access to more advanced processors as they are introduced and can greatly extend the life of your system

In addition, the Amiga 4000 makes it possible for you to work with documents and graphics from other systems. It comes standard with a built-in 3.5 inch high density disk drive and the CrossDOS utility which allows for easy transfer of files between Amiga and MS-DOS® -based systems.

And the Amiga works side-by-side with other platforms in Novell® networking environments.

With the blistering speed and power of the Motorola® 68040 processor orchestrating the system, presentations and interactive training programs take on a new brilliance. Number crunching business applications are completed in less time.

The Amiga 4000 allows you to create exciting video effects and fast-paced animations in a fraction of the time and cost of systems that must be pieced together from a confusing array of add-on cards.

The Amiga 4000. Spectacular performance right out of the box.

AMIGA 4000 FEATURES

- Advanced Graphics Architecture™ utilizing AGA Chip Set and Motorola® 68040 Processor

- 256,000 simultaneous colors from a palette of 16.8 million available

- Hardware Scan Doubling for flicker-free display on 31 kHz monitors

- Upward compatibility with Amiga Enhanced Chip Set

STANDARD AMIGA FEATURES

Features integrated into the system architecture and supported by the system software

- Advanced Custom Processors for DMA, Video, Graphics, Sound and I/O Control

- NTSC Video Horizontal Scan Rate Compatibility

- Multitasking Operating System

- Selectable Resolutions/True Overscan

- Standard File Format (IFF)

AMIGA® 4000

CPU
- Motorola® 68040 series 32-bit processor
- 25 Mhz clock speed
- Removable processor module

Memory
- 2 MB 32-bit Chip RAM
- Up to 16 MB 32-bit Fast RAM
- Easily expandable via standard SIMM units
- Additional standard RAM is supported by the Amiga's proprietary AUTOCONFIG ™ capability

Software
- 512 KB 32-bit ROM
- AmigaDOS ™ 3.0 Multitasking Operating System
- Supports programmable resolutions
- Supports outline fonts
- Localized for multiple language/countries
- CrossDOS MS-DOS® file transfer utility

Interfaces
- Keyboard
- Mouse/Joystick/Lightpen/Tablet ports (2)
- Serial (RS-232)
- Parallel (Centronics)
- Video (RGB analog or RGBI digital)
- Right and Left stereo audio
- Internal and External floppy disk drive ports
- Internal AT IDE port. Optional SCSI adapter

System Slots
- CPU slot (200-pin) supports high-speed memory and advanced processors
- Amiga system bus - Four 16/32-bit Zorro III expansion slots (100-pin) with AUTOCONFIG ™
- PC bus - Three PCAT™ slots

Video Slot
- Extended 24-bit Video slot
- In line with standard 100-pin Zorro slot for easy integration of Zorro and video boards
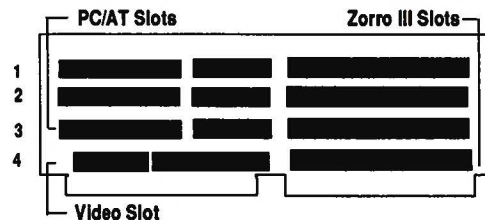
How the Slots Work
If MS-DOS compatibility is desired a Bridgeboard may be placed in slot 1, 2 or 3. When a Bridgeboard is installed, the empty PC slots are capable of supporting a wide variety of XT or ATstyle boards. The remaining Zorro III slots support both 16 & 32-bit Zorro boards.

Keyboard
- Detachable
- 94 keys, including 10 function keys
- Separate numeric keypad
- Separate cursor keys (inverted "T" layout)

Mouse
- Opto-mechanical
- 2-button design

Disk Drives
- Built-in 3.5-inch high density disk drive (880 KB/1.76 MB formatted)
- Hard Drive models pre-formatted and pre loaded with system software and utilities
- 2 rear and 2 front 3.5-inch drive bays
- 1 front 5.25-inch drive bay

Graphic Modes
- AGA custom chipset produces resolutions ranging from 320x200 to 1280x400 (more with overscan), including 800x600
- NTSC and PAL video resolutions
- Color palette of 16.8 million colors
- 2 to 256,000 user definable colors displayable on-screen

Video Display Output
- Works with RGB analog VGA or multiscan monitors (not all modes supported with non-multiscan monitors)
- Horizontal scan rates 15 kHz - 31 kHz
- Vertical scan rates 50Hz - 72 Hz

Sound
- Four channel stereo sound, capable of reproducing complex waveforms
- Built-in sound buffer up to 800 KB nominal
- 8-bit D/A converters
- 6-bit volume

Dimensions
- 15 1/4" deep x 15" wide x 5" high

Weight
- Approx. 20 lbs.

Power Requirements
- 110 volt/60Hz 150 watt power supply

A4000 CONFIGURATIONS

A4000 - 040/120
- Amiga 4000 with Motorola 68040 Processor, 6MB RAM, internal 3.5" 1.76 MB Floppy Drive and 120 MB IDE Hard Drive
- 94-key Keyboard
- 2-button Mouse
- AmigaDOS Release 3.0 System Software and Utilities
- Gold Service Warranty Package

A4000 • SS • 9/92

Comparison of Video Display Standards

Standard Video	Standard Resoluton	Maximum Simultaneous Colors	Sprites	Selectable NTSC Modes	Video Slots	Analog &Digital Video Out	Video Over- scan	Indep. Anim
VGA	640 by 480	16	No	No	None	No	No	No
SVGA								
256K VRAM	640 by 480	16	No	No	None	No	No	No
512K VRAM	800 by 600	256	No	No	None	No	No	No
1Meg VRAM	1024 by 768	256	No	No	None	No	No	No
Macintosh								
Standard	640 by 480	16	No	No	None	No	No	No
512K addon	640 by 480	256	No	No	None	No	No	No
Quadra	1024 by 768	256	No	No	None	No	No	No
Commodore	Programmable							
AGA	320 by 200	256K	Yes	Yes	One	Yes	Yes	Yes
(Advanced	320 by 400	256K	Yes	Yes	One	Yes	Yes	Yes
Graphics	640 by 200	256K	Yes	Yes	One	Yes	Yes	Yes
Architecture)	640 by 400	256K	Yes	Yes	One	Yes	Yes	Yes
	640 by 480	256K	Yes	No	One	Yes	Yes	Yes
	640 by 960	256K	Yes	No	One	Yes	Yes	Yes
	800 by 600	256K	Yes	No	One	Yes	Yes	Yes
	1280 by 200	256K	Yes	Yes	One	Yes	Yes	Yes
	1280 by 400	256K	Yes	Yes	One	Yes	Yes	Yes

Prepared   9/10/92

This comparison chart is for reference purposes only, and should not be reprinted or published in any format.

Comparison of Video Display Standards

Standard Video	Standard Resoluton	Maximum Simultaneous Colors	Sprites	Selectable NTSC Modes	Video Slots	Analog &Digital Video Out	Video Over-scan	Indep. Anim
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256K VRAM	640 by 480	16	No	No	None	No	No	No
512K VRAM	800 by 600	256	No	No	None	No	No	No
1Meg VRAM	1024 by 768	256	No	No	None	No	No	No
Macintosh								
Standard	640 by 480	16	No	No	None	No	No	No
512K addon	640 by 480	256	No	No	None	No	No	No
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Commodore	Programmable							
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Architecture)	640 by 400	256K	Yes	Yes	One	Yes	Yes	Yes
	640 by 480	256K	Yes	No	One	Yes	Yes	Yes
	640 by 960	256K	Yes	No	One	Yes	Yes	Yes
	800 by 600	256K	Yes	No	One	Yes	Yes	Yes
	1280 by 200	256K	Yes	Yes	One	Yes	Yes	Yes
	1280 by 400	256K	Yes	Yes	One	Yes	Yes	Yes

Prepared   9/10/92

After You Create The Most
Powerful Cost Effective
Multimedia Computers Ever,
What Do You Do For
An Encore?

The Amiga®4000 is the first member of an all new generation of Amiga multimedia computers. With the introduction of the Advanced Graphics Architecture™ Chip Set, the Amiga 4000 sets new and affordable benchmarks for exciting graphics, animation and video.

Amiga 4000 Features

- Advanced Graphics Architecture™ utilizing AGA Chip Set and Motorola® 68040 Processor
- 256,000 simultaneous colors from a palette of 16.8 million available
- Hardware Scan Doubling for flicker-free display on 31 kHz monitors
- Upward compatibility with Amiga Enhanced Chip Set

More Power To Open Your Eyes To Multimedia.

Standard Amiga Features

Features integrated into the system architecture and supported by the system software

- Advanced Custom Processors for DMA, Video, Graphics, Sound and I/O Control
- NTSC Video Horizontal Scan Rate Compatibility
- Multitasking Operating System
- Selectable Resolutions/True Overscan
- Standard File Format (IFF)

CPU

- Motorola® 68040 series 32-bit processor
- 25 MHz clock speed
- Removable processor module

Memory

- 2 MB 32-bit Chip RAM
- Up to 16 MB 32-bit Fast RAM
- Easily expandable via standard SIMM units
- Additional standard RAM is supported by the Amiga's proprietary AUTOCONFIG™ capability

Software

- 512 KB 32-bit ROM
- AmigaDOS™ 3.0 Multitasking Operating System
- Supports programmable resolutions
- Supports outline fonts
- Localized for multiple language/countries
- CrossDos MS-DOS® file transfer utility

Video Slot

- Extended 24-bit Video slot
- In line with standard 100-pin Zorro slot for easy integration of Zorro and video boards

Interfaces

- Keyboard
- Mouse/Joystick/Lightpen/Tablet ports (2)
- Serial (RS-232)
- Parallel (Centronics)
- Video (RGB analog or RGBI digital)
- Right and Left stereo studio
- Internal and External floppy disk drive ports
- Internal AT IDE port. Optional SCSI adapter

System Slots

- CPU slot (200-pin) supports high-speed memory and advanced processors
- Amiga system bus - Four 16/32-bit Zorro III expansion slots (100-pin) with AUTOCONFIG™
- PC bus - Three PCAT™ slots

Keyboard

- Detachable
- 94 keys, including 10 function keys
- Separate numeric keypad
- Separate cursor keys (Inverted "T" layout)

Mouse

- Opto-mechanical
- 2-button design

Disk Drives

- Built-in 3.5-inch high density disk drive (880 KB/1.76 MB formatted)
- Hard Drive models pre-formatted and pre-loaded with system software and utilities
- 2 rear and 2 front 3.5-inch drive bays
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Graphic Modes

- AGA custom chipset produces resolutions ranging from 320x200 to 1280x400 (more with overscan), including 800x600
- NTSC and PAL video resolutions
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Video Display Output

- Works with RGB analog VGA or multiscan monitors (not all modes supported with non-multiscan monitors)
- Horizontal scan rates 15 kHz - 31 kHz
- Vertical scan rates 50 Hz - 72 Hz

Sound

- Four channel stereo sound, capable of reproducing complex waveforms
- Built-in sound buffer up to 800 KB nominal
- 8-bit D/A converters
- 6-bit volume

Dimensions

- 15 1/4" deep x 15" wide x 5" high

Weight

- Approx. 20 lbs.

Power Requirements

- 110 volt/60 Hz 150 watt power supply

Commodore® AMIGA

HERE IT IS

The Amiga® 4000.
The Multimedia Machine.

Congratulations! You've found the Amiga® 4000, the computer that defines the term "multimedia." Ask a salesperson for a demonstration now. At Commodore we're not just leading the multimedia race, we started it.

- **Advanced Graphics Architecture™**
  - 16.8 million color palette
  - 256,000 simultaneous color
  - new high-res interlace modes
  - new genlock modes
  - faster animation
  - Full Video Overscan
  - NTSC Scan Rate Compatability

- **Power By Motorola® 68040 Processor**
- **Multitasking Operating System**
  - Amiga DOS Release 3
  - Iconia, Windowing Interface
  - PostScript®
  - Agfa Outline Fonts
  - CrossDOS for MS-DOS®/Windows file compatability

- 1.76 MB Dual Speed, High Density Floppy
- Large Capacity Hard Drive
- Up To 4 32-Bit Expansion Slots
- Up To 4 PC/AT Expansion Slots
- Video Slot
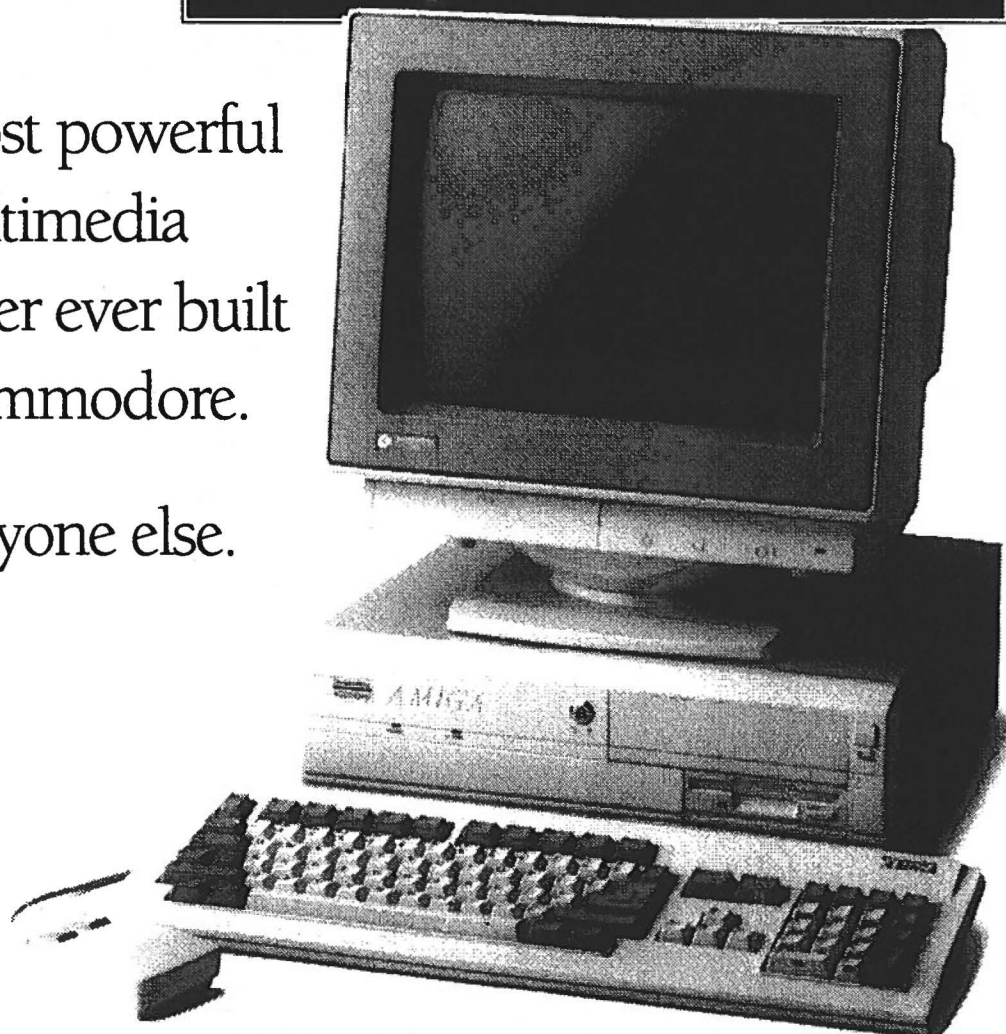- Commodore's 24-Hour Helpline and optional on-site service

C= Commodore
AMIGA

Motorola is a registered trademark of Motorola Inc. PostScript is a registered trademark of Adobe. Agfa, CG, Intelligent are trademarks of Agfa Corporations.

IT'S HERE!!

Introducing the Amiga 4000.

The most powerful multimedia computer ever built by Commodore.

Or anyone else.

C= Commodore
AMIGA

Commodore
1992 Media Schedule
October thru December

Segment/Publication	October				November					December				# Inserts
	28	5	12	19	26	2	9	16	23	30	7	14	21	
Enthusiasts														
Amazing Computing	Page 4C				Page 4C					Spread 4C				3x
Amiga World	Page 4C				Spread 4C					Spread 4C				3x
Compute (Demo Edition)										4-Page Insert				1x
Dealer Recruitment														
Computer Reseller News		Spread 4C				Tab P4C		Spread 4C			Tab P4C			4x
Video														
Video Systems						Spread 4C								1x
AV Video	Spread 4C													1x
Videography										Spread 4C				1x
AV Communications	Spread 4C													1x

Commodore
1992 Media Schedule
October thru December

Segment/Publication	October 28	5	12	19	November 26	2	9	16	23	December 30	7	14	21	# Inserts
Education														
Chronicle of Higher Education					Jr. P4C									1x
T.H.E. Journal		Spread 4C												1x
Technology & Learning					Spread 4C									1x
Multimedia														
InfoWorld		Jr. P4C	4-Pg. Insert		Jr. P4C		4-Pg. Insert			Jr. P4C	4-Pg. Insert			6x
PC Week (Appl. Devel. Ed.)		Tab P4C	Spread 4C									Tab P4C		3x
PC Week (Full-Run)								Spread 4C						1x
AV Communications					Page 4C									1x
New Media					Spread 4C					Spread 4C				2x
BYTE										Spread 4C				1x

Commodore
1992 Media Schedule
October thru December

Segment/Publication	October				November					December				# Inserts
	28	5	12	19	26	2	9	16	23	30	7	14	21	
Presentation														
Sales & Marketing Mgmt.		Page 4C												1x
Business Marketing					Page 4C									1x
AV Video					Page 4C									1x
PC World					Page 4C									1x
BYTE					Page 4C									1x
Computer Pictures					Page 4C									1x
Computer Graphics World		Page 4C												1x
Presentation Products					Page 4C									1x

"Better Presentations" Supplement
Will also run in
Ad Week, Marketing Week,
Successful Meetings, Training

Commodore
1992 Media Schedule
October thru December

Segment/Publication	October				November					December				# Inserts
	28	5	12	19	26	2	9	16	23	30	7	14	21	
Training														
HR Magazine					Page 4C									1x
HR Executive	Jr. Page 4C													1x
CBT Directions					Page 4C									1x

Total Number of Insertions: 43

Commodore Amiga 4000 Launch Media

Media	Oct '92						Nov '92					Dec '92				
	20	27	4	11	18	25	1	8	15	22	29	6	13	20	27	3
Digital Evolution							████									
Multi Media Magazine							████									
Qui fait quoi							████									
Computer Dealer News					████											
Toronto Computes							████									
The Computer Paper — BC						████										
The Computer Paper — AB							████									
The Computer Paper — MB							████									
The Computer Paper — Toronto						████										
Input						████										
HUM					████											
			████ Issue Date													
			██ On the Street													

Commodore Amiga 4000 Launch Media

Media	Oct '92						Nov '92					Dec '92					
	20	27	4	11	18	25	1	8	15	22	29	6	13	20	27	3
Digital Evolution		◆					◆				◆				◆	
Multi Media Magazine			◆							◆					◆	
Qui fait quoi		◆					◆									
Computer Dealer News	◆															
Toronto Computes				◆					◆							
The Computer Paper — BC			◆					◆								
The Computer Paper — AB				◆				◆								
The Computer Paper — MB				◆				◆								
The Computer Paper — Toronto		◆					◆									
Input																
HUM		◆														

Issue Date

On the Street

◆ Material Deadline

A New Chapter In Multimedia. From The People Who Wrote The Book.

Commodore has defined multimedia. Again. With the new Amiga® 4000, the powerful computer that was built from the ground up for multimedia. Video, sound, animation, the multitasking A4000 can do it all. Thanks to a 68040 Motorola® processor, 6MB of RAM standard, and up to 256,000 simultaneous colours from a palette of 16.8 million. And like every Amiga, the A4000 comes with a comprehensive 1 year warranty.

See your Commodore Amiga dealer for the whole story.

C⸗ Commodore® AMIGA

For best results run ads size as.
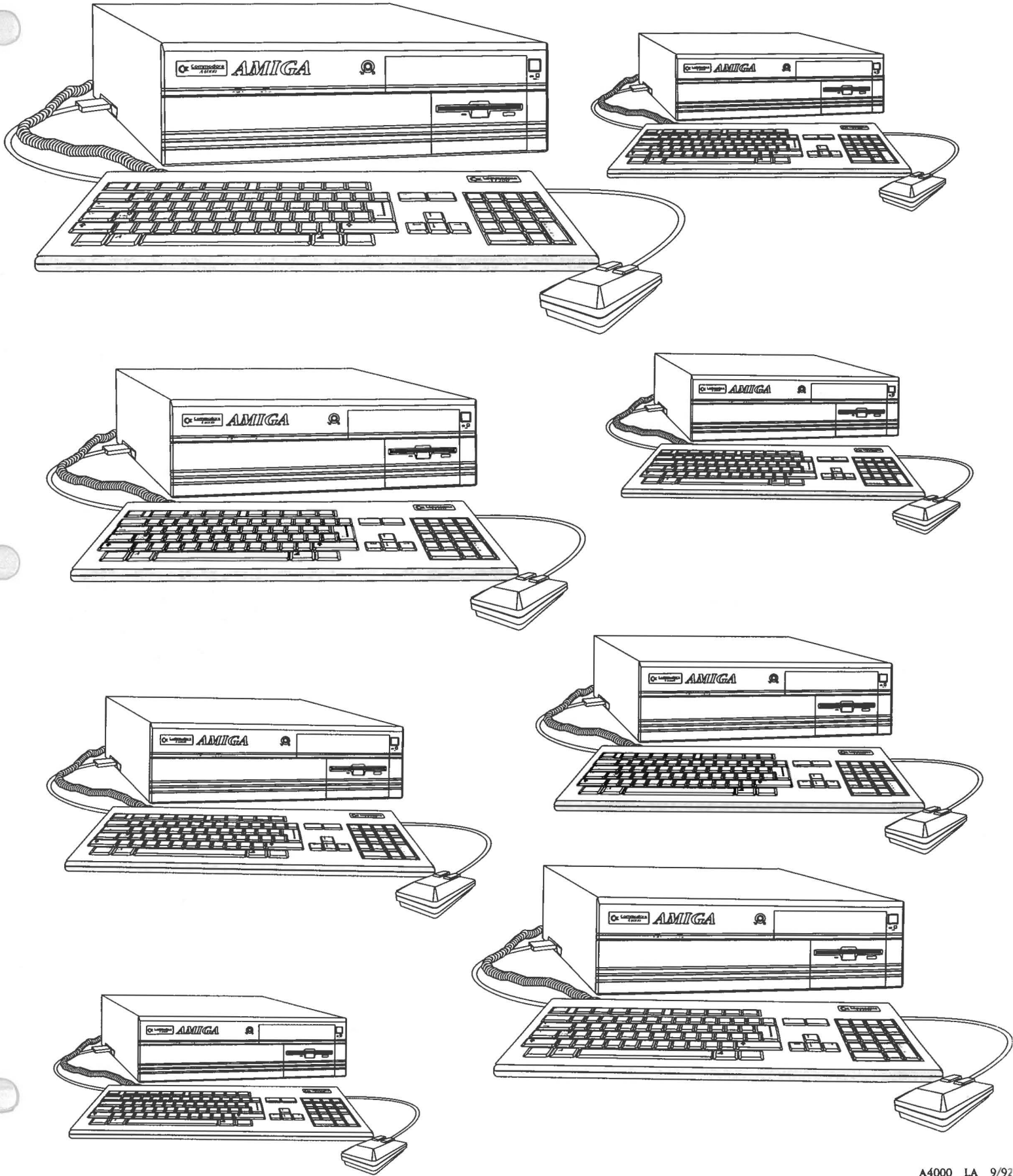
The 4000 Answers
Dealer Information Binder

Chapter 2

Q: "Where can I find an Operating System that transfers MS-DOS® to *AMIGA* files, without wading through complicated manuals?"

A: *"Introducing OS 2.1 for the AMIGA!"*

AmigaDOS™ Release 2.1

AmigaDOS Release 2.1 extends and adds to the power and ease of use features introduced with version 2.04 of the Amiga multitasking operating system. The professional three-dimensional look of the user interface unleashes the power of AmigaDOS with an intuitive point-and-click windowing environment.

A convenient, multi-level installation program allows novice as well as advanced users to quickly and easily configure or update Amiga system software.

And the message strings of many V2.1 programs have been modified to dynamically adapt to different languages and locales.

The CrossDOS utility allows fast, easy transfer of MS-DOS® formatted files between the Amiga and MS-DOS-based computers. CrossDOS can be enabled at startup for seamless communication of data and files between the different operating environments.

The addition of a PostScript® printer driver will allow users to set Postscript preferences and print directly to PostScript printers.

User control over the operating environment has been expanded with additions and improvements to the versatile Preference Editors.

The Preference Editors allow users to select keyboards, printers, monitors, set resolutions and colors and make other personal modifications to the way they interact with the Amiga.

Printer setup and configuration has been made easier than ever with single-click selection of the most popular printers. Enhancements to the HP printer drivers and the addition of a Bubble Jet driver make it quick and easy to get high quality printer output with a minimum of effort.

AmigaDOS Release 2.1 continues to build on the features that distinguish the Amiga from other systems. Release 2.1 strengthens the way users can directly access the resources and power of the Amiga.

AmigaDOS™RELEASE 2.1 FEATURES

- Dynamic Localization of Programs to Different Languages and Locales

- Includes CrossDOS for easy transfer of MS-DOS® and Amiga® files

- Includes PostScript® Printer Driver

- Professional look, three-dimensional, point-and-click user interface

- Updated Printer Drivers for most popular printers

- New Preferences Editing

- Supports Multiple Serial and Parallel Printer Preferences

- Includes Installer and Screen Mode Requester

AmigaDOS™ Release 2.1

System Software Upgrade

NEW FEATURES

- Dynamic Localization of Programs to Different Languages and Locales
- Includes CrossDOS for easy transfer of MS-DOS® and Amiga® files
- Includes Postscript® Printer Driver
- Supports Multiple Serial and Parallel Printer Preferences
- New Preferences Editing
- Motorola® 68040 compatible
- Screen mode requester added for selection of screen mode or video mode

FONTS

- Supports Agfa Compugraphic Intellifont scalable typefaces
- Includes CG Times, CG Triumvirate and LetterGothic typefaces
- Supports scaling of bitmap fonts
- Better control of font rendering for Desktop Publishing applications

AREXX PROGRAMMING

- Includes ARexx, a powerful inter-process communication language
- Can be used to control applications which support ARexx
- Allows the integration of different applications that support ARexx into a single environment
- Ability to launch applications from within other applications

USER INTERFACE

- Professional three-dimensional look
- Improved ease of use and consistency
- Extensively configurable through Preference Editors
- Standard file and font requesters
- Supports scrolling screens larger than the monitor
- Select Locale/Country by clicking on World Map
- Keyboard selection in Input Preferences

WORKBENCH FEATURES

- All files are accessible from the Workbench
- Files are accessible by name or by icon
- Drag selection of multiple icons
- Includes *New Drawer* command
- Easier cleanups and positioning of icons
- Icons can be "left out" on the Workbench backdrop for easier access

OTHER FEATURES

- General purpose Installer added with installation activation of Keymaps, Monitors, Printers and DOS Drivers
- Select keyboard from Preferences Editor
- Printer Drivers for popular printers added
- Spline animations on blanked screens
- Support for European monitors
- Enhanced reliability even under low memory situations
- Faster and more reliable floppy disk access
- Improved Icon Editor

SHELL ENHANCEMENTS

- AmigaDOS commands are faster, more powerful and require fewer key strokes
- New commands handle environment variables and links
- Cut and Paste in shell windows
- Extended wildcard capabilities
- *Backtick* feature allows embedded commands within commands
- Shell windows have a close gadget
- ARexx scripts can be run directly from the Shell

ECS FEATURES

Enhanced Chip Set Required
- 640x480 non-interlaced Productivity Mode(requires 31 kHZ-capable monitor)
- 1280x200 and 1280x400 Super-HiRes Modes
- 800x600 requires Multisync
- New genlock features

HARDWARE REQUIREMENTS

- Requires any 2.0X ROM-ready Amiga 500, 600, 2000 or 3000 series computer
- Amiga 2500, A2620 or 2630 requires rev-(or greater ROMS on the accelerator card
- ECS features require optional Enhanced Chip Set
- Contact nearest Commodore reseller for details and installation

ORDER INFORMATION

AS215 AmigaDOS Release 2.1 Software Upgrade
includes
- 6 disks
- 3 manual set

AS216 AmigaDOS Release 2.1 ROM and Software Upgrade includes
- 2.0X ROM
- 6 disks
- 3 manual set

Contact nearest Commodore reseller for details

Chapter 2

The new 2.1 Operating System is essentially
identical to the 4000 Operating System, 3.0. Stay tuned
for further information regarding shipping date.

The 4000 Answers
Dealer Information Binder

Chapter 3

Q: "Where can I get a full featured presentation package that also supports CD-XL, MIDI files, and doesn't require any special setups or fancy configurations?"

A: *"Introducing AmigaVision® Professional!"*

C: Commodore® AMIGA®

For Immediate Release
September 24, 1992

Contact: Tom Shepherd
             Director of Marketing
             (416) 499-4292

COMMODORE ANNOUNCES AMIGAVISION PROFESSIONAL
MULTIMEDIA AUTHORING SOFTWARE

AGINCOURT, ONTARIO --   Commodore Business Machines Ltd. is pleased to introduce AmigaVision Professional, a multimedia authoring tool which allows Amiga users to combine video, animation, sound, graphics and text to create impressive presentations. AmigaVision Professional is an upgrade of AmigaVision v1.7.

AmigaVision Professional requires no programming experience. Each segment of a presentation is developed separately and appears as an individual icon (i.e. a piano keyboard represents music). When all the segments are completed, the user simply arranges the icons in the order they are to run in the presentation. With AmigaVision Professional it's easy to add, delete, modify and rearrange elements.

This versatile authoring system can be used to produce a variety of multimedia applications including computer-based training videos, business presentations, courseware, point of information displays, exhibit and trade show displays, video catalogues and audio/visual productions. Easy to understand dialog boxes help guide users through the process.

AmigaVision Professional has a number of new features including full support functions for the Commodore CDTV Interactive Player, playback of CD Digital Audio and CD-XL Motion Video Files, full MIDI support, and freely redistributable Runtime Modules.

AmigaVision Professional combines text and graphics on-screen, and allows simultaneous playback of animation and audio. It has digitized sound, speech synthesis, text-to-speech conversion, and supports Amiga Stereo audio. An integrated dBase III compatible database module makes manipulation of text and numeric data easier and more powerful.

By developing a high end authoring package, Commodore has given Amiga users the ability to fully integrate all aspects of multimedia on a platform that was designed with multimedia in mind. Tom Shepherd, Director of Marketing for Commodore, comments: "AmigaVision Professional is a major upgrade that will help users take fuller advantage of the Amiga. The enhancements we've made in the areas of audio and video will enable experienced users to create some really fascinating multimedia presentations."

Suggested list price for AmigaVision Professional is $495.00 and is available through authorized Commodore resellers.

Commodore Business Machines Ltd. is one of the world's largest independent manufacturers of microcomputers for business, government, home, and education markets. The company's product range covers a broad spectrum from home and entertainment machines through to professional industry standard compatible personal computers and the AMIGA multitasking graphics workstation, a leader in the field of multi-media applications.

Commodore International Limited, through its operating subsidiaries around the world, manufactures and markets personal computers to customers in the professional, government, education and consumer market sectors. The company has four product lines: Amiga multimedia computers, MS-DOS PC compatibles, C64 computers and CDTV.

Commodore was established in 1958 in Toronto and now has worldwide revenues of $1 billion with over 3000 employees in 43 countries. Commodore owned manufacturing facilities are located in West Chester, U.S.A., Hong Kong, and West Germany. The company is listed on the New York Stock Exchange.

For further information, please contact Tom Shepherd at (416) 499-4292.

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AmigaVision® Professional

Introduction/Upgrade Program

TARGET MARKET: Professionals involved in developing and delivering training and presentations. Educators that are, or wish to develop interactive learning tools for the classroom. Information system designers developing compelling user-friendly interfaces to complex data processing networks (i.e. Touch Screens, Hit Box based inquiry stations, etc.)

FEATURES: All new documentation, freely redistributable runtime module, takes advantage of CDTV features, new enhanced Object Editor with control panel functions, double the screen transitions of the original AmigaVision, 17 palette/resolution independent transitions, additional data base functions, anim brushes can be placed and positioned and path traversal options have been added, unlimited number of text windows, word and character recognition allowing hypertext browsing, and much, much more.

THE OFFER: Beginning September 24, 1992 Authorized Commodore Resellers may order the following product:

Product	Product Number	Suggested Retail	Dealer Cost
AmigaVision Professional	0251 000 0	$495.00	$295.00

Customers may upgrade their existing AmigaVision for $135.00 by returning their original diskette set to Commodore.

COLLATERAL: Dealer Program Announcement
Press Release (part of combined products release)
Specifications Sheet

SPECIAL DEALER TERMS AND CONDITIONS: All standard terms and conditions apply.

Commodore

AmigaVision Professional

AmigaVision, the icon-based authoring language used to create multimedia applications complete with sound, animation, graphics and video, has been upgraded by Commodore Business Machines Ltd.

New features of AmigaVision Professional include all new documentation, freely redistributable runtime module, takes advantage of CDTV features, new enhanced Object Editor with Control panel functions, double the screen transitions of the original AmigaVision, 17 pallette/resolution, independent transitions, additional data base functions, anim brushes can be placed and positioned and path traversal options have been added, unlimited number of text, windows, word and character recognition allowing hypertext, browsing, and much, much, more.

AmigaVision Professional will be sold separately and has a suggested retail price of $495.00.

An AmigaVision Professional upgrade is available to current AmigaVision owners by sending the original program disk (make a backup first) to:

> AmigaVision Professional Upgrade
> Commodore Business Machines Limited
> 3470 Pharmacy Avenue
> Agincourt, Ontario
> M1W 3G3
>
> Attention: Amy Louzon

Enclose a cheque or money order payable to Commodore Business Machines Limited in the amount of $135.00 (G.S.T. and shipping costs included). Please include Provincial Sales Tax as applicable.

Please allow 6 - 8 weeks for delivery.

AmigaVision™ Professional
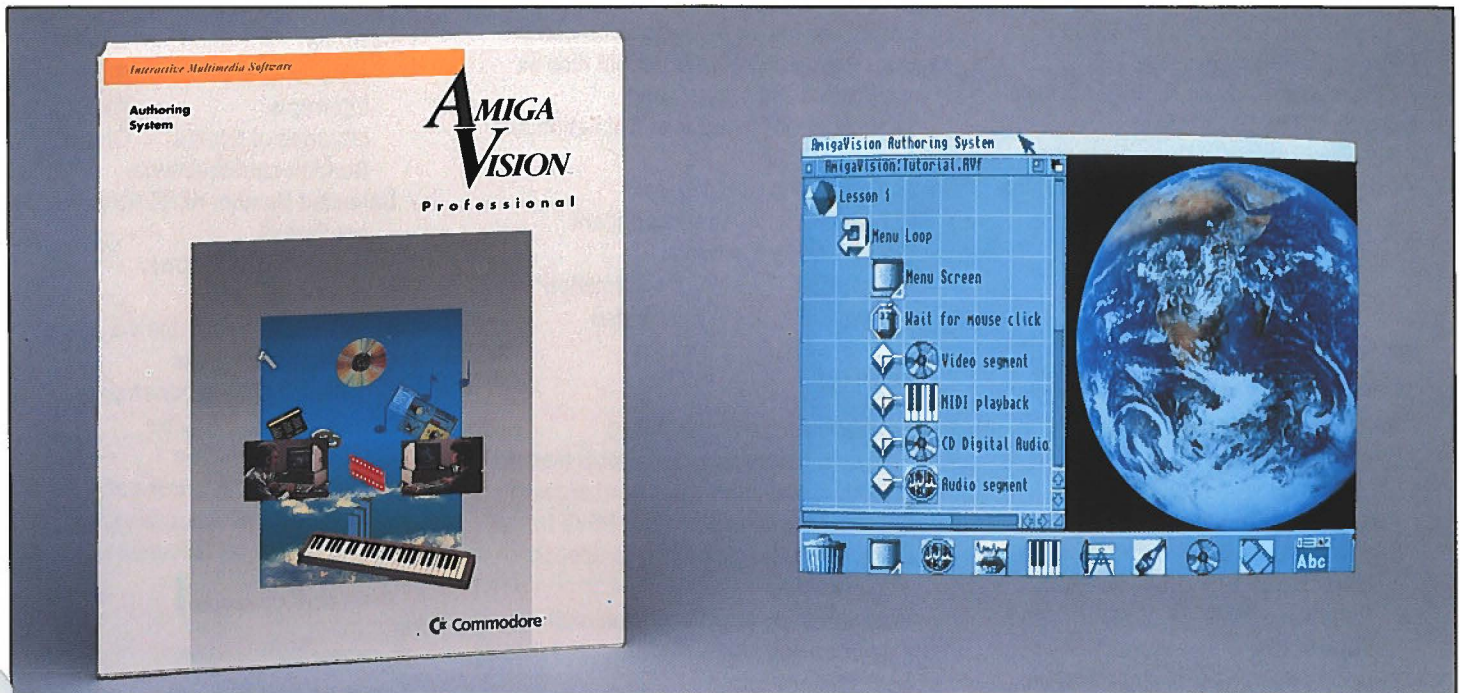
AmigaVision™ Professional is an icon-based, object-oriented authoring tool for creating dynamic presentations, point-of-information displays and inter-active courseware.

The AmigaVision visual interface makes it possible to create exciting and informative presentations without having to learn a text-based programming language. Using an elegant visual programming design, AmigaVision commands pictorially represent the functions that they perform.

Modular segments displayed on a familiar flowchart help to simplify even the most complex interactive applications. Development time is greatly reduced resulting in lower costs and increased efficiency.

AmigaVision Professional has full support functions for the Commodore® CDTV® Interactive Player. Standard text and picture files stored on ISO-9660 discs from other platforms can be quickly incorporated into AmigaVision flows.

And CD-XL motion video files can be easily integrated into applications for added impact.

The built-in database module allows courseware developers to use and manipulate both text and numeric data for the creation of computer-based training applications for business, government and education.

AmigaVision Professional includes support for pre-recorded, full motion video from industry-standard laserdisc and tape players.

Single - screen viewing of flow content, video, graphics and animation greatly simplifies interactive multimedia applications development. Completed applications can be presented on low-cost delivery systems like the CDTV Player using the freely redistributable runtime module.

The ability to fully integrate all aspects of multimedia within a superior user interface makes AmigaVision Professional an exceptional value.

AMIGAVISION™ PROFESSIONAL FEATURES

- Includes full support for the CDTV Interactive Multimedia Player

- Playback of CD Digital Audio and CD-XL Motion Video Files

- Includes freely redistributable Runtime Module

- Streamed-in Animations and Sound Files

- Selectable Memory Limitations and Memory Usage Reporting

- Enhanced Object Editor with Control Panel Functions

- Full Object Naming and Manipulation

- Path Traversal Options for Objects

- Palette and Resolution Independent Transitions

- Supports Mouse, Keyboard, Joystick and Touchscreen

- Full MIDI support

CDTV® SUPPORT FEATURES

- Playback of CD-XL Motion Video Files
- Plays CD Digital Audio tracks
- Cursor and Jumping Highlight Modes
- Reads CDTV IR Controller
- Full Support for CDTV Preferences
- Control MIDI out files to MIDI or Amiga

VIDEO CONTROL FEATURES

- Supports full motion video
- Supports Genlocks
- On-screen videodisc controller
- Video setup and configuration
- Supports Sony, Pioneer and Phillips laserdisc players, NEC PC-VCR, Panasonic TQ3032F, Sony Umatic 9 Tape Player
- Supports drivers for custom players

USER INTERFACE

- Primary Interface(s)
  Direct Manipulation of Icons
  Requester Boxes
- Presentation in flowchart format
- User input from keyboard, mouse , joystick or touchscreen
- Auto-open and reduced-size icons

GRAPHICS & ANIMATION

- Combines Text and Graphics on-screen
- Uses Amiga standard IFF ILBM files as foreground and background
- Simultaneous playback of Animation and Audio
- 34 Transitions with 4 speeds
  17 palette/resolution independent
- Visual Display Elements

Graphics	Animation
Text	Video

SOUND

- Supports Amiga Stereo Audio
- Supports Amiga standard SMUS files with tempo, dynamics and chord support
- Digitized sound in standard 8SVX format
- Speech synthesis and text-to-speech conversion
- Pre-loading of audio and streamed-in animation and sound for increased display and playback speed
- Audio Display Elements

Digitized Sound	Music
Speech Synthesis	

DATABASE

- Integrated into AmigaVision
- dBase III® data file compatible
- up to 10 files open simultaneously
- Read and Update functions
- Variable definition and manipulation
- Define data input forms
- String, numeric, data and Boolean operations

VISUAL PROGRAMMING

- Features

Flow Control	Subroutines
Interrupts	AV Engine
Libraries of Events	Object Editor
Conditional Statements	

- Unlimited Number of Hit Boxes/Buttons per Screen
- Unlimited Text Windows
- Hypertext Browsing
- Runs external programs via ARexx
- Chaining of programs
- Selectable memory constraints
- Create runtime modules
- Relocate applications
- Name, Position and Move objects including animation brushes
- Define Paths and Traversal Options

RUNTIME PLAYER

- Includes freely redistributable Runtime Player

HARDWARE REQUIREMENTS

- Minimum Delivery System
  Amiga Computer with 2 MB RAM

- Suggested Development System
  Amiga Computer with Hard Drive
  and 4 MB RAM

- Runtime Player Requires approx. 270KB
  1 MB RAM recommended

ORDER INFORMATION

AS 251 AmigaVision Professional

- *Program Disk*
- *Install Disk with printer and video drivers*
- *Demo Disk with Guided Tour booklet*
- *Examples Disk*
- *User's Guide*
- *Runtime Player*

- *Requires AmigaDOS™ 1.3 or higher*

Commodore®
AMIGA®

Commodore Business Machines, Inc.
1200 Wilson Drive
West Chester, PA 19380   1-800 66-AMIGA

Commodore Business Machines, Ltd.
3470 Pharmacy Avenue
Agincourt, Ontario, M1W 3G3   1-800 661-AMIGA

The 4000 Answers
Dealer Information Binder

Chapter 4

Q: Where can I get a *portable AMIGA* with all the standard features to suit my budget?

A: *"Introducing the AMIGA 600 HD!"*

Commodore® AMIGA®

Commodore® NEWS

For Immediate Release
September 24, 1992

Contact: Tom Shepherd
Director of Marketing
(416) 499-4292

COMMODORE INTRODUCES THE AMIGA 600 PERSONAL COMPUTER
FOR HOME, SCHOOLS AND BUSINESS

AGINCOURT, ONTARIO -- Commodore Business Machines Ltd. is pleased to announce the introduction of the Amiga 600, a new entry level computer for home markets and special purpose business and education applications. The Amiga 600HD, which includes a 40MB hard disk drive, is also being introduced.

The A600 features Motorola's MC68EC000 processor, an Enhanced Chip Set and extensive use of surface mount technology. It comes with 1MB of RAM (expandable to 6MB) and includes a 3.5" floppy drive, built in hard disk capability and an industry standard PCMCIA expansion port.

It ships with AmigaDOS 2.05 system software which, in addition to the standard features of release 2, includes provisions in the Kickstart ROM for the use of an IDE hard drive, and support for the PCMCIA slot. AmigaDOS is a true multi-tasking operating system that is ROM resident.

The A600 provides three options for video display -- RF Modulated, Colour Composite, or RGB Analog. The ability to connect it to a variety of video display devices makes the system ideal for the home, education, and business presentation markets. It can be connected to a VCR, or directly to a television or a computer monitor.

By adopting the PCMCIA standard for system expansion, the A600 will function with a greater variety of third party devices and easily handle data conversion from other platforms.

According to Commodore's Director of Marketing, Tom Shepherd, one of the key targets is the portable presentation market, "The A600 is compact and light enough to be carried in a briefcase. With three video output options, it's an ideal portable that can be hooked up to whatever display unit is available."

The A600 will be available from authorized Commodore resellers across Canada and has a suggested list price of $499.00. The A600HD has a suggested list price of $795.00.

Commodore Business Machines Ltd. is one of the world's largest independent manufacturers of microcomputers for business, government, home, and education markets. The company's product range covers a broad spectrum from home and entertainment machines through to professional industry standard compatible personal computers and the AMIGA multitasking graphics workstation, a leader in the field of multi-media applications.

Commodore International Limited, through its operating subsidiaries around the world, manufactures and markets personal computers to customers in the professional, government, education and consumer market sectors. The company has four product lines: Amiga multimedia computers, MS-DOS PC compatibles, C64 computers and CDTV.

Commodore was established in 1958 in Toronto and now has worldwide revenues of $1 billion with over 3000 employees in 43 countries. Commodore owned manufacturing facilities are located in West Chester, U.S.A., Hong Kong, and West Germany. The company is listed on the New York Stock Exchange.

For further information, please contact Tom Shepherd at (416) 499-4292.

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AMIGA® 600
PERSONAL COMPUTER

The Amiga 600 is an advanced and powerful personal computer in a newly designed compact low-profile case.

Incorporating the unique features of the Amiga family of computers, the Amiga 600 offers a Motorola® 68000 microprocessor along with sophisticated custom processors for enhanced computing speed and versatility.

The Amiga multitasking operating system allows users to integrate text, graphics and sound and reaches new levels of affordable excellence in home and professional multimedia computing.

And with the ability to connect to a variety of video display devices the Amiga 600 is a great choice as an entry level system for home entertainment and educational uses.

Adding an internal hard drive and memory transform the Amiga 600 into a powerful, low-cost computer for courseware delivery, business presentations and point of information displays.

With sensational Amiga graphics and animation capabilities, video enthusiasts will find the Amiga 600 to be a capable and inexpensive production assistant.

The Amiga 600 is compatible with a wide range of standard peripheral devices such as printers, modems and disk drives. The newly added PCMCIA industry standard slot can provide additional storage on removable credit card size modules.

With an easy to use point and click interface and quick connection to a display device even computer novices can be up and running with a minimum of effort.

The Amiga 600. Powerful computing capabilities at an affordable price.

AMIGA 600 FEATURES

- Compact low-profile design
- External PCMCIA expansion connector
- AmigaDOS™ Release 2 software in ROM
- Color composite, RF Modulated and RGB Video Output

STANDARD AMIGA FEATURES

Features integrated into the system architecture and supported by the system software

- Advanced Custom Processors for DMA, Video, Graphics, Sound and I/O Control
- NTSC Video Horizontal Scan Rate Compatibility
- Multitasking Operating System
- Selectable Resolutions/True Overscan
- Standard File Format (IFF)

AMIGA®600

CPU
- Motorola® 68000, 16/32-bit
- 7.16 Mhz NTSC
- Multi-Chip coprocessor system for DMA, Video, Graphics and Sound

Memory
- Expanadable to 2 MB Chip RAM
- Maximum RAM expansion 6MB with PCMCIA

Software
- 512 KB ROM
- AmigaDOS™ Release 2 Multitasking Operating System In ROM
- Workbench 2.X and Utilities software

Keyboard
- Integral 78 Key International

Mouse
- Opto-mechanical
- 2-button design

Disk Drives
- Built-in 3.5-inch 880 KB floppy disk
- External 3.5-inch floppy disk
- Internal IDE hard disk drive (optional)

Graphic Modes
- Color palette of 4096 colors
- Selectable resolutions
- Supports full overscan

Video Display Output
- RGB analog 15 KHz Horizontal Scan Rate
- Color Composite
- RF Modulated

Sound
- Four channel stereo sound

Dimensions
- 14" deep x 9.5" wide x 3" high

Weight
- Approx. 6 lbs.

Power Requirements
- Switching power supply 23 watts

Interfaces
External
- Floppy Disk (DB23)
- Mouse/Joystick/Lightpen (2 DB9)
- Serial (RS-232, PC-compatible)
- Parallel (Centronics - PC-compatible)
- Video RGB analog (DB23 15 KHz Color Composite (RCA) RF Modulator (RCA)
- PCMCIA Card Slot

Internal
- Internal AT IDE connector

EXTERNAL FEATURES

PARALLEL PORT

POWER

SERIAL PORT

RF MODULATOR

AUDIO CONNECTOR

COMPOSITE VIDEO

EXTERNAL FLOPPY DRIVE

RGB VIDEO CONNECTOR

A600 CONFIGURATIONS

A600 P
- Amiga 600 with Motorola 68000 Processor, internal 3.5" 880KB Floppy Drive, 1 MB RAM
- Integral Keyboard
- Release 2.X Operating System and Utilities
- 2-button Mouse

A600HD
- Amiga 600 with Motorola 68000 Processor, internal 3.5" 880KB Floppy Drive, 1 MB RAM
- Internal 40 MB IDE Hard Drive
- Integral Keyboard
- Release 2.X Operating System and Utilities
- 2-button Mouse

C⁼ Commodore®
AMIGA®

A600 • SS • 9/92

AMIGA® 600

Robocop™ 3 Computer Pack

The powerful Amiga 600 computer offers incredible 16-bit graphics, stereo sound, and animation in a newly designed compact, low-profile case.

Incorporating the unique features of the Amiga family of computers, the Amiga 600 offers a Motorola® 68000 microprocessor along with sophisticated custom processors for enhanced computing speed and versatility.

With an easy-to-use "point and click" operating system and thousands of software programs, the Amiga offers major benefits for learning, entertainment and home productivity uses.

The Amiga 600 is compatible with a wide range of standard peripheral devices. Expand the Amiga's capabilities by adding optional printers, monitors, floppy disk drives, modems, and joysticks.

Internal memory can be expanded using the A601 RAM expansion and the industry standard PCMCIA slot.

The Amiga 600 connects directly to a standard TV. The Robocop™3 Computer Pack includes the following software programs:

AMIGA 600 - Robocop™3 Computer Pack

Robocop™ 3 Ocean Software Ltd.
The epic saga of Robocop continues in spectacular 3-D vector graphics.

Myth System 3 Software Ltd.
You are taken far back in time to confront the evil god Dameron. Myth is history in the making.

Shadow of the Beast III™ Psygnosis
You must defeat the Beast Lord, Maletoth, in the newest arcade saga from Psygnosis.

Graphic Workshop Holosoft Technologies
The most comprehensive paint program for the Amiga. Perfect for the beginner and experienced computer artists alike.

Microtext DOMARK Software Ltd.
A word processing package to produce letters, term papers and documents at home.

AMIGA 600 FEATURES

- Compact low-profile design

- External PCMCIA expansion connector

- AmigaDOS™ Release 2 software in ROM

- Color composite, RF Modulated and RGB Video Output

STANDARD AMIGA FEATURES

Features integrated into the system architecture and supported by the system software

- Advanced Custom Processors for DMA, Video, Graphics, Sound and I/O Control

- NTSC Video Horizontal Scan Rate Compatibility

- Multitasking Operating System

- Selectable Resolutions/True Overscan

- Standard File Format (IFF)

AMIGA® 600

CPU
- Motorola® 68000, 16/32-bit
- 7.16 MHz NTSC
- Multi-Chip coprocessor system for DMA, Video, Graphics and Sound

Memory
- Expandable to 2 MB Chip RAM
- Maximum RAM expansion 6MB with PCMCIA

Software
- 512 KB ROM
- AmigaDOS™ Release 2 Multitasking Operating System in ROM
- Workbench 2.0X and Utilities software

Keyboard
- Integral 78 Key International

Mouse
- Opto-mechanical
- 2-button design

Disk Drives
- Built-in 3.5-inch 880 KB floppy disk
- External 3.5-inch floppy disk
- Internal IDE hard disk drive (optional)

Graphic Modes
- Color palette of 4096 colors
- Selectable resolutions
- Supports full overscan

Video Display Output
- RGB analog 15 KHz Horizontal Scan Rate
- Color Composite
- RF Modulated

Sound
- Four channel stereo sound

Dimensions
- 14" deep x 9.5" wide x 3" high

Weight
- Approx. 6 lbs.

Power Requirements
- Switching power supply 23 watts

Interfaces
External
- Floppy Disk (DB23)
- Mouse/Joystick/Lightpen (2 DB9)
- Serial (RS-232, PC-compatible)
- Parallel (Centronics - PC-compatible)
- Video RGB analog (DB23 15 KHz)
  Color Composite (RCA)
      RF Modulator (RCA)
- PCMCIA Card Slot

Internal
- Internal AT IDE connector

EXTERNAL FEATURES

PARALLEL PORT
SERIAL PORT
AUDIO CONNECTOR
EXTERNAL FLOPPY DRIVE
RGB VIDEO CONNECTOR
COMPOSITE VIDEO
RF MODULATOR
POWER

A600 CONFIGURATIONS

A600P
- Amiga 600 with Motorola 68000 Processor, internal 3.5" 880KB Floppy Drive, 1 MB RAM
- Integral Keyboard
- Release 2.0X Operating System and Utilities
- 2-button Mouse

A600HD40
- Amiga 600 with Motorola 68000 Processor, internal 3.5" 880KB Floppy Drive, 1 MB RAM
- Internal 40 MB IDE Hard Drive
- Integral Keyboard
- Release 2.0X Operating System and Utilities
- 2-button Mouse

A600
Robocop 3 Computer Pack *Includes*
- Amiga 600 CPU
- Robocop 3
- Shadow of the Beast III
- Graphic Workshop
- Myth
- Microtext

A600HD
Virtual Reality Computer Pack *includes*
- A600HD CPU with 40 MB Hard Drive
- Virtual Reality Studio 2
- Push-Over
- Graphic Workshop
- Microtext

C℞ Commodore®
AMIGA®

A600RC3 • SS • 9/92

Introducing The Little PC That Packs A Big Punch.

Don't let the small footprint fool you. The new Commodore Amiga® 600HD, with an internal 2.5 in. 40MB hard disk drive, has a kick to it. And tons of features other companies charge extra for. Connect it to an RGB monitor, a TV or VCR and take advantage of the Colour Composite Video output and RF Audio/Video output.
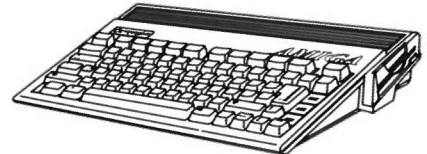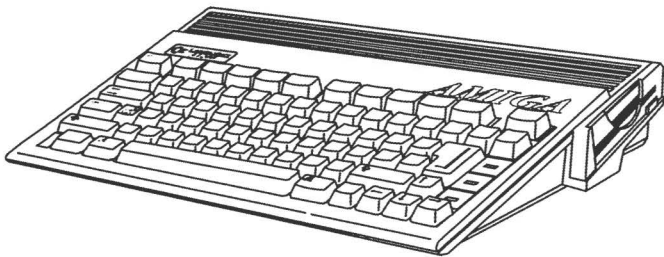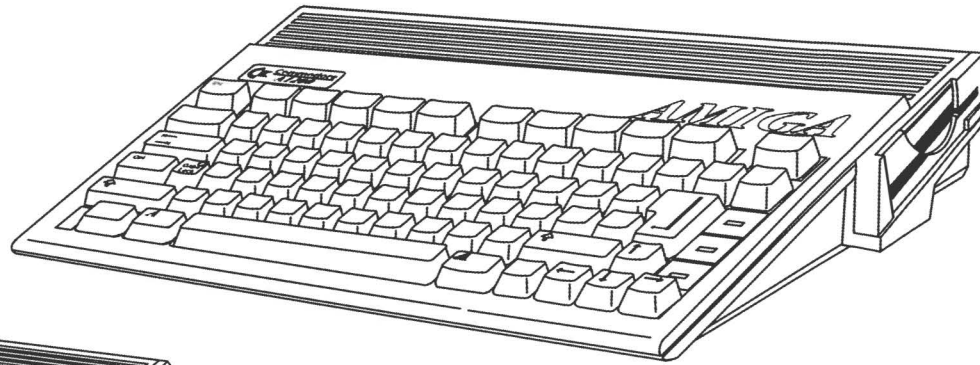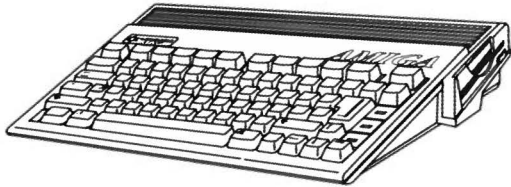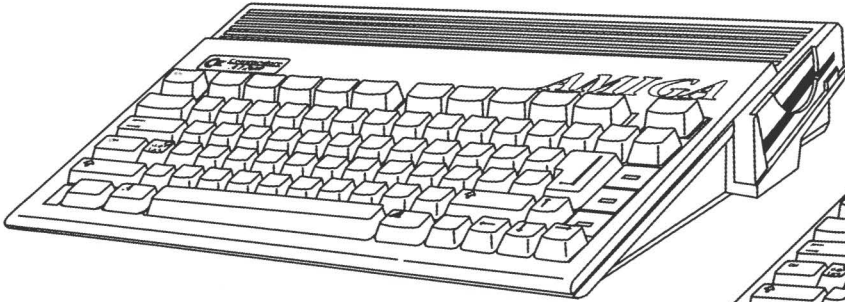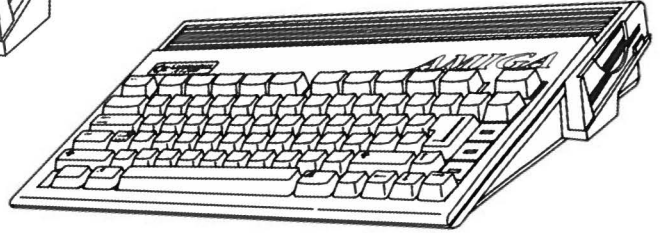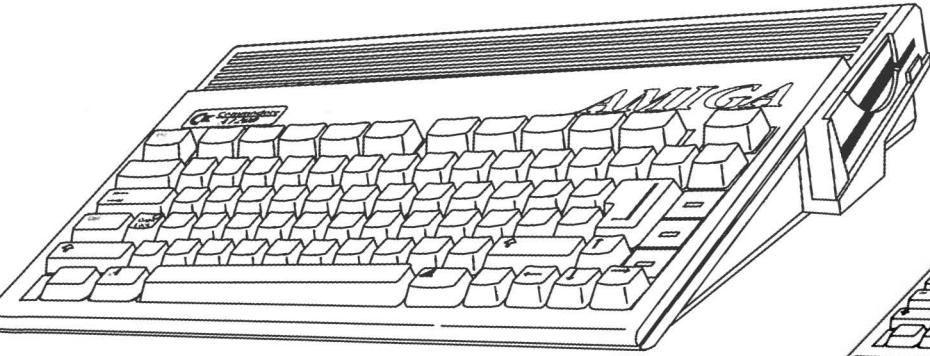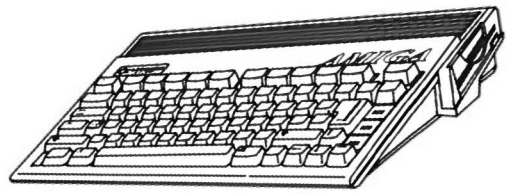
Also comes with a comprehensive 1 year warranty.

For a knockout deal, see your Commodore Amiga dealer today.

Ct Commodore®
AMIGA

For best results run ads size as.
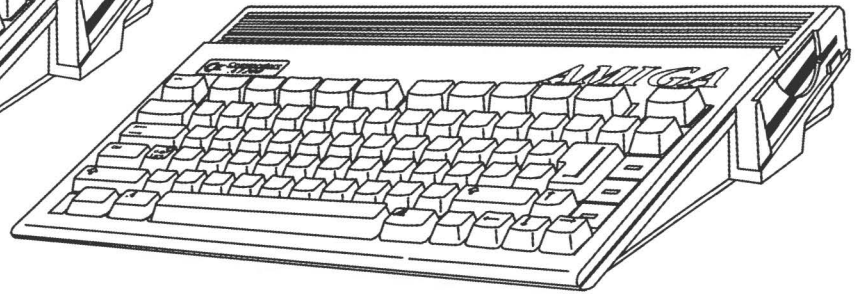
The 4000 Answers
Dealer Information Binder

Chapter 5

Q: "Where can I get a high-capacity CD-ROM drive for my *AMIGA* 500!"

A: *"Introducing the A570 for the AMIGA 500!"*

BUY YOUR A570 TODAY!

C= Commodore®
AMIGA®

For Immediate Release
September 24, 1992

Contact: Tom Shepherd
            Director of Marketing
            (416) 499-4292

COMMODORE INTRODUCES AMIGA 570 EXTERNAL CD-ROM DRIVE
FOR THE AMIGA 500

AGINCOURT, ONTARIO -- Commodore Business Machines Ltd. is pleased to announce the Amiga 570 ROM Storage drive for the Amiga 500. By adding the Amiga 570 External CD-ROM drive to the Amiga 500, users enter a new world of interactive information, education and entertainment. With almost 600 Megabytes (MB) of storage per disc, the Amiga 570 drive has virtually endless possibilities for accessing a library of information now available on CD ROM discs including encyclopedias, atlases and early learning activities with attractive graphics and stereo sound.

Tom Shepherd, Director of marketing for Commodore, adds: "The A570 will provide Amiga 500 users with the ability to run more than 100 CD titles currently available for CDTV. Users can now research a variety of topics for business, home and educational applications. The A570 also provides an economical solution for Amiga 500 users to enter the world of CD ROM multimedia technology."

The A570 can be used to play audio CDs as well as CD+Graphics discs. The audio track can be channelled through the Amiga's speaker, through external stereo speakers, or through headphones via a jack on the front panel of the A570. The volume control is also on the front panel.

The A570 is a powerful and versatile peripheral for the Amiga 500. Other features include a rear slot for cartridge-based peripherals and an internal slot for 2MB RAM expansion.

Currently available in Canada, the Amiga 570 External CD ROM has a suggested retail price of $749.00 and is available through authorized Commodore resellers.

Commodore Business Machines Ltd. is one of the world's largest independent manufacturers of microcomputers for business, government, home, and education markets. The company's product range covers a broad spectrum from home and entertainment machines through to professional industry standard compatible personal computers and the AMIGA multitasking graphics workstation, a leader in the field of multi-media applications.

Commodore International Limited, through its operating subsidiaries around the world, manufactures and markets personal computers to customers in the professional, government, education and consumer market sectors. The company has four product lines: Amiga multimedia computers, MS-DOS PC compatibles, C64 computers and CDTV.

Commodore was established in 1958 in Toronto and now has worldwide revenues of $1 billion with over 3000 employees in 43 countries. Commodore owned manufacturing facilities are located in West Chester, U.S.A., Hong Kong, and West Germany. The company is listed on the New York Stock Exchange.

For further information, please contact Tom Shepherd at (416) 499-4292.

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A570 CD-ROM Intelligent Peripheral
Introduction Program

TARGET MARKET: Amiga 500 Owners that need or want the ability to use CDTV Software titles, ISO 9660 CD-ROM access, or the ability to play audio CD's.

FEATURES: High Capacity Read Only CD-ROM Storage, CDTV Compatibility, Internal 2MB Fast RAM Expansion, Front panel stereo headphone jack and volume control, and expansion connector.

THE OFFER: Beginning September 24, 1992 Authorized Commodore Resellers may order the following product:

Product	Product Number	Suggested Retail	Dealer Cost
Amiga 570 CD Drive	0570 000 0	$749.00	$595.00

INTRODUCTORY PROMOTION: With the purchase of an A570 CD-ROM Drive, Commodore will include Grolier's and Lemmings at no charge.

COLLATERAL: Dealer Program Announcement
Press Release (part of combined products release)
Specifications Sheet

SPECIAL NOTES AND INSTRUCTIONS:

Installation - The A570 must be installed by a Commodore Authorized Service Center. As all A500s will require certain modifications that can only be made by a Commodore Authorized Service Center, each A570 will include a coupon that entitles the customer to free installation. In the event that there is no Authorized Service location in the customer's area, customers may contact Commodore Product Support and make arrangements for installation. Commodore will not accept returns caused by customers that have so modified their A500 as to make the A570 uninstallable. Details of upgrade procedures will be forwarded to authorized CQS centres.

In order for the A570 to be installed on an Amiga 500 the system must meet the following requirements:
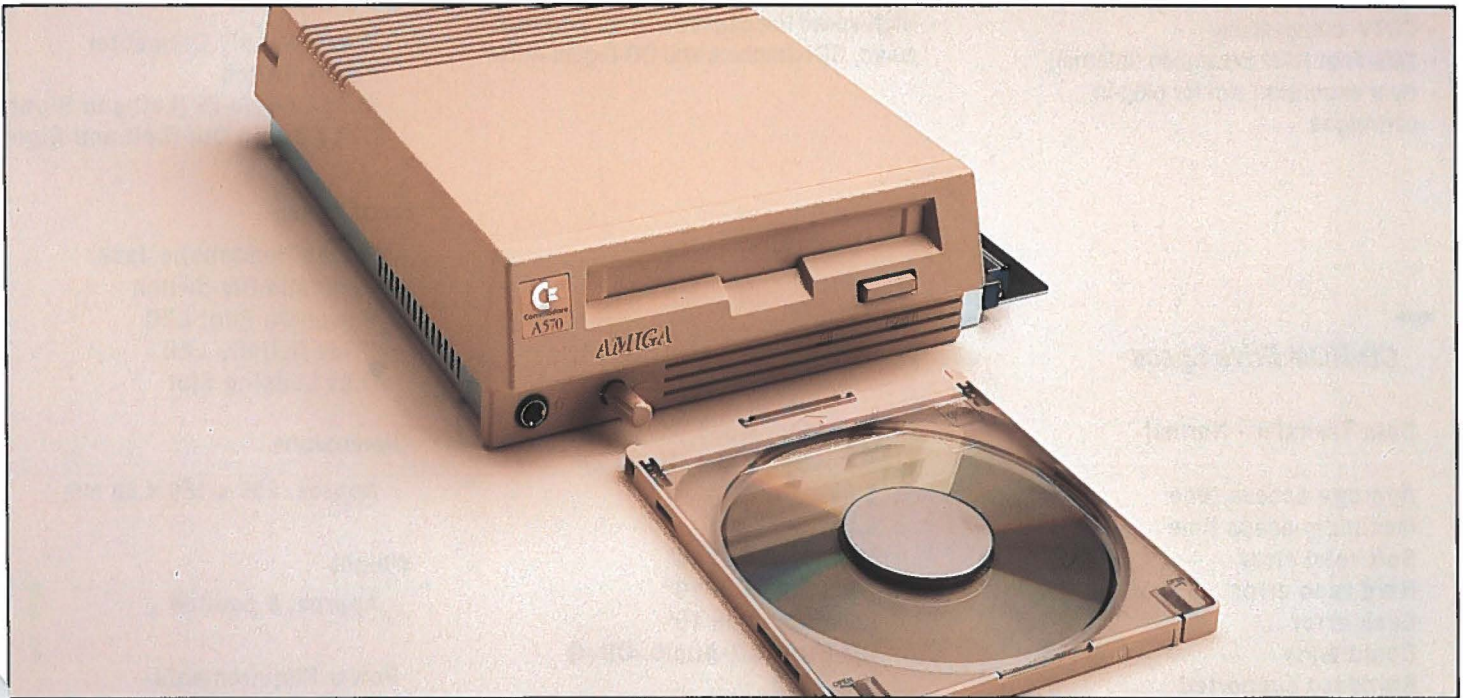
- 1 Megabyte chip RAM installed
- comply with all published factory specifications

SPECIAL DEALER TERMS AND CONDITIONS: Commodore will not be responsible for installation of A570's on A500's that have been altered from factory specifications.

All standard terms and conditions apply.

AMIGA® 570

EXTERNAL CD ROM STORAGE
for the Amiga 500

Add the A570 External CD-ROM drive to your Amiga and enter a new world of interactive information, education and entertainment.

Digital sound and graphics and the considerable capabilities of the CDTV Interactive Multimedia Player can now be accessed by Amiga 500 owners.

Select from a library of exciting and informative CDTV discs including encyclopedias, atlases and early learning activities with stimulating graphics and stereo sound.

Home entertainment discs take on a whole new dimension with over 600 megabytes of storage available for virtually endless levels of play.

And the A570 plays standard audio CDs as well as CD+Graphics discs.

Convenient front panel headphone jack and volume control will allow listening to your favorite audio CD while working on Amiga disk-based applications.

The A570 is a powerful and versatile peripheral for the Amiga 500. The A570 can read many of the ISO-9660 standard format discs from other platforms.

CD-ROM discs with volumes of information on topics such as history, finance and geography can now be researched for business, home and educational applications.

The A570 has an internal slot for memory expansion and a rear slot for cartridge-based peripherals. Built-in software configures the A570 for CDTV, CD-ROM or digital audio uses.

Added expansion capabilities allow Amiga 500 users to enhance their systems to the level of systems from competing platforms costing hundreds of dollars more.

The A570.
CDTV and more for the Amiga 500.

AMIGA 570 FEATURES

- High Capacity, Read Only CD-ROM storage for the Amiga 500

- CDTV® Compatibility

- Internal 2MB RAM expansion capability

- Rear Expansion Slot for Plug-in cards

STANDARD AMIGA FEATURES

Features integrated into the system architecture and supported by the system software

- Advanced Custom Processors for DMA, Video, Graphics, Sound and I/O Control

- NTSC Video Horizontal Scan Rate Compatibility

- Multitasking Operating System

- Selectable Resolutions/True Overscan

- Standard File Format (IFF)

AMIGA® 570

Features

- High Capacity, Read-only CD-ROM
- CDTV compatibility
- 2MB Fast RAM expansion (internal)
- Rear expansion slot for plug-in cartridges

Operating System

- ISO 9660 file system handler
- High-speed decompression for graphics, audio, CD+Graphics and CD Digital Audio

Physical Characteristics

Rear Panel

> Power Supply Connector
> Power Switch
> Amiga Audio IN (Left and Right)
> CDTV Audio Out (Left and Right)

Front Panel

> Stereo Headphone Jack
> Compatibility Switch
> Power-On Pilot LED
> Drive Activity LED
> Disc Loading Slot

Dimensions

> Approx. 256 x 180 x 68 mm

Weight

> Approx. 6 pounds

Power Requirements
> 110 volt / 60Hz
> from external supply

CD-ROM Drive Specs

Data Transfer - Normal	: 153 KBytes/sec (Mode 1)
	: 171 KBytes/sec (Mode 2)
Average access time	: 0.5s
Maximum acess time	: 0.8s
Soft read error	: Less than 1 in 10^9
Hard read error	: Less than 1 in 10^{12}
Seek error	: Less than 1 in 10^6
Commands	: CD-ROM, CD-Audio, CD+G
Standard supported	: ISO-9660
Data Capacity	: 540 MegaBytes (approx.)
Mechanism	: Disc Caddy Type

CD Audio Specs

8X oversampling

Audio output	: External 2.0V p-p, 10K OHM
Frequency reponse	: 4-20KHz
Signal/Noise	: -96db
Channel Separation	: -85db
Harmonic Distortion	: 0.02% at 1 KHz
Maximum audio capacity	: about 28 hours - AM quality
Sample Rates	: variable from
	CD Audio rate (44KHz) to 6KHz

Dual 16-bit D/A converter plus
64 levels of attenuation

Commodore® AMIGA®

Teach Your A500 To Read.

Turn on your Amiga® 500 to the exciting fun of CDTV® software with the new Amiga® 570 External CD-ROM Drive. Fascinating games, music, encyclopedias, atlases — the A570 lets you interact with all of them with the touch of a button. It even plays your audio CDs. It's also an ideal tool for advanced users. Comes with two CDTV titles.

Get more out of your A500. See your Commodore Amiga dealer today.

Cᴇ Commodore®
AMIGA®

For best results run ads size as.
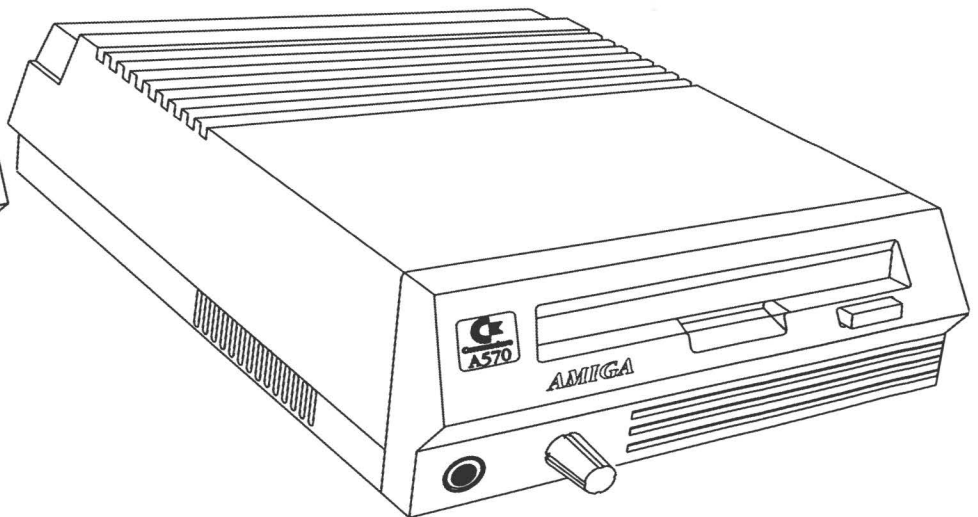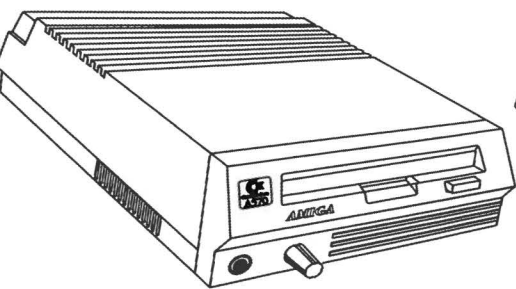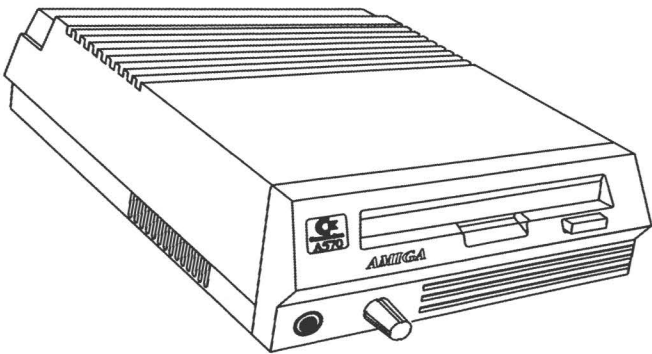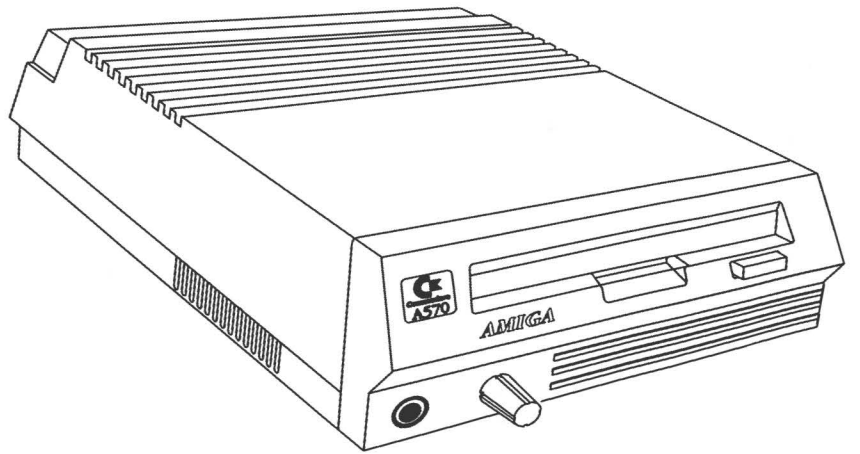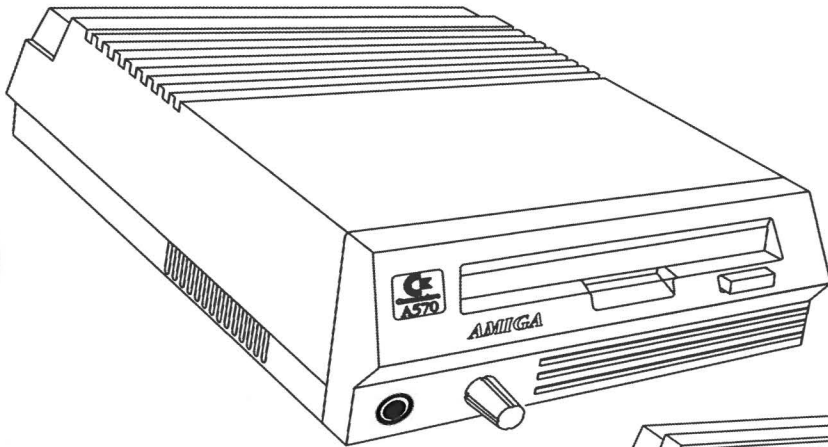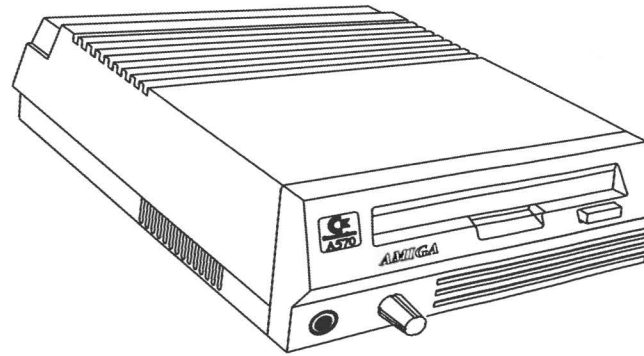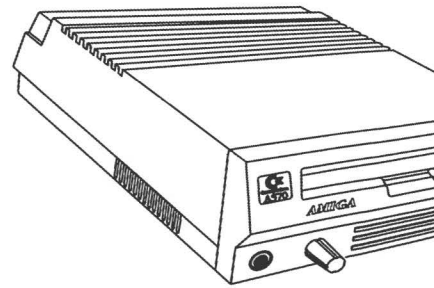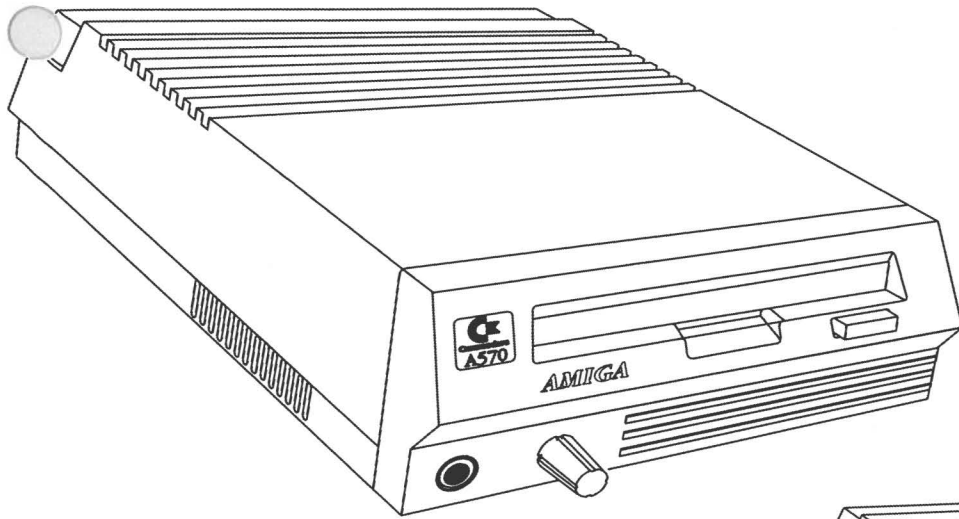
The 4000 Answers
Dealer Information Binder

Chapter 6

Q: "Is there a notebook sized PC/AT with adequate RAM and a full 80-key keyboard?"

A: *"Introducing the Commodore Personal Assistant!"*

Introducing the Commodore Personal Assistant!
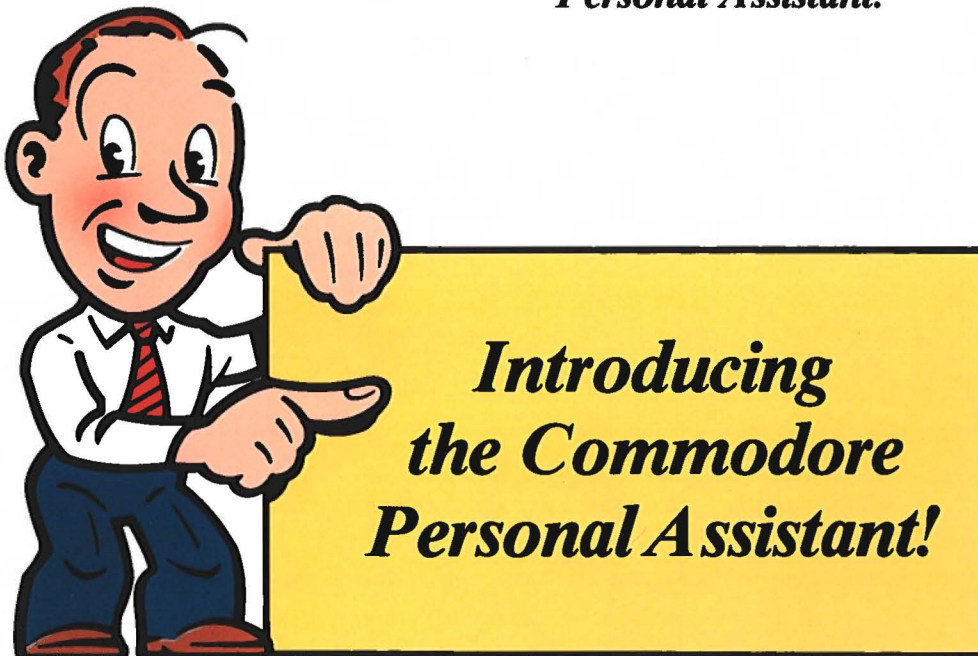
C: Commodore®
AMIGA®

The 4000 Answers
Dealer Information Binder

Chapter 6

The CPA -- Commodore Personal Assistant is expected to be released before Christmas. Stay tuned for further details!

Cᴇ ® Commodore®
AMIGA®

The 4000 Answers
Dealer Information Binder

Chapter 7

Q: "What's the best way to get maximum speed and performance from my *AMIGA* 3000T, without having to be a rocket scientist?"

A: *"Introducing the A3000T/040!"*

C= **Commodore**®
# AMIGA®

For Immediate Release
September 8, 1992

Contact: Tom Shepherd
Director of Marketing
(416) 499-4292

COMMODORE® ANNOUNCES 68040 AMIGA® 3000T

AGINCOURT, ONTARIO -- Commodore Business Machines Ltd. today announced a new version of the Amiga 3000T multimedia workstation powered by a 25MHz Motorola® 68040 processor, making it the most expandable and powerful Amiga currently available. The Manufacturer's Suggested Retail Price is $6,895.00 including a monitor. Units should be available in mid September 1992 at Commodore authorized reseller locations.

The Amiga 3000T-040/200 features the Motorola 68040 processor with an integrated math co-processor and provides approximately 20 CISC MIPS and 3.5 DP Megaflops. The 68040 equipped A3000T features throughput that equals or surpasses other similarly equipped Motorola 68040 or Intel® 486-based machines. The unit includes AmigaDOS™ 2.0 and comes standard with a 200MB hard disk drive, a 3.5" floppy disk drive, 5MB of RAM (expandable to 18MB), and 32 bit bus architecture.

"The Amiga 3000T is ideal for the demanding needs of the professional multimedia developer involved in videographics, dynamic presentations, interactive training or point-of-sale kiosks," said Commodore Director of Marketing Tom Shepherd. "The great speed and expandability of the system, combined with the system's ability* to connect to a Novell® network and share information with MACs and PCs, make it the logical choice for use as a multimedia development workstation."

--- more ---

Commodore International Limited, through its operating subsidiaries around the world, manufactures and markets personal computers to customers in the professional, government, education and consumer market sectors. The company has four product lines: the Amiga multimedia computers, the MS-DOS PC compatibles, the C64 computers and the CDTV.

Commodore was established in 1958 in Toronto and now has worldwide revenues of over $1 billion with over 3000 employees in 43 countries. Commodore-owned manufacturing facilities are located in West Chester, U.S.A., Hong Kong, and West Germany. The company is listed on the New York Stock Exchange.

For more information on Commodore's products and corporate background, please contact Tom Shepherd, Commodore's Director of Marketing at (416) 499-4292.

- 0 -

* With available software and hardware options.

The 4000 Answers
Dealer Information Binder

Chapter 8

Q: "Where can I find a demo that really shows off the new graphics capabilities of the *AMIGA* 4000?"

A: *"Introducing the AMIGA 4000 demo!"*

The Amiga 4000
Dealer Demo
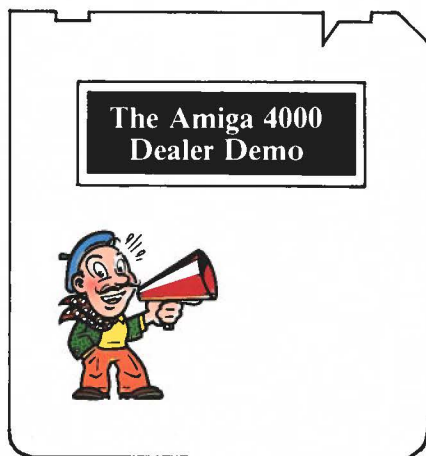
Commodore®
AMIGA®

The 4000 Answers
Dealer Information Binder

Chapter 8

The *NEW A4000 Dem*o will be available to you at the time you receive your first Amiga 4000. Stay tuned for details!

Commodore® AMIGA®

CK Commodore

<u>*4000 REASONS TO OWN AN AMIGA® CONTEST*</u>

Spectacular graphics!

        Sensational animation!

                Superb video!

Commodore's users have many reasons for using an Amiga system for both professional and non-professional applications. Now Commodore® would like to give all users an opportunity to share their reasons for using an Amiga through its "4000 Reasons to Own An Amiga Contest."

Commodore will award an Amiga 4000 to the Amiga user with the best overall entry. The second prize winner will win an Amiga 600 and the third prize winner will receive AmigaVision™ Professional, Commodore's new authoring software. Details of the contest and entry form are attached.

Contest entry forms are available at Commodore authorized reseller locations while supplies last.

Commodore Business Machines, manufactures and markets a complete line of Amiga computers and peripherals for the business, education, government and consumer markets. Commodore® is a trademark of Commodore Electronics Limited. Amiga® and AmigaVision are trademarks of Commodore-Amiga, Inc.

The 4000 Reasons to Own An Amiga Contest

Marketing Opportunities

The introduction of the Amiga 4000 has stirred tremendous interest in the Amiga user community. Commodore resellers can participate in the excitement generated by the announcement of the Amiga 4000, A600, A570 and AmigaVision Professional by getting users involved in the *4000 Reasons To Own An Amiga Contest.*

Current users, user groups members and other individuals are quick to tell why they chose the Amiga as their personal computer. The *4000 Reasons Contest* gives Amigaphiles with interesting applications a chance to win an Amiga 4000 and 1960 monitor or one of Commodore's other hot new products. Resellers can use the contest opportunity to stimulate interest in new products and gather marketing information about the current user base.

4000 REASONS TO OWN AN AMIGA

Commodore Business Machines, Inc. is pleased to offer a chance to win a new *AMIGA 4000* or one of two other "Hot" new products from Commodore® by entering our *"4000 REASONS TO OWN AN AMIGA CONTEST."*

Grand Prize: AMIGA 4000 System: 120MB HD; 4MB RAM; 1960 Monitor (Approx. Retail Value: $5,350)
Second Prize: AMIGA 600HD with: 40MB internal HD; 1MB RAM; 1084S Monitor (Approx. Retail Value: $1,250)
Third Prize: AmigaVision Professional (Approx. Retail Value: $495)

Please send entry forms to:
        Commodore Business Machines Inc.
        Attention: *4000 REASONS CONTEST*
        1200 Wilson Drive
        West Chester, PA 19380

Name: _____

Address: _____

City: _____ Province: _____ Postal Code: _____

Daytime Phone: ( ) _____ Evening Phone: ( ) _____

Application Categories (Please check one): ☐ Video   ☐ Entertainment   ☐ Presentations
☐ Scientific/Medical   ☐ Education   ☐ Interactive   ☐ Miscellaneous

Model of Amiga owned/used: _____ Date Purchased: _____

I primarily use an Amiga at: ☐ Work   ☐ Home   ☐ School

MY REASON FOR OWNING AN AMIGA IS (25 words or less): _____
_____
_____
_____
_____

CONTEST RULES:

1. Commodore is looking for the best reason, in 25 words or less, for using an Amiga in the following applications: Video, Entertainment, Presentations, Interactive, Education, Scientific/Medical, Miscellaneous Applications. The reasons are to be written on the entry form above. No purchase is necessary.
2. Amiga users of all ages and all professional or non-professional uses are eligible.
3. Only one entry per person and one application per entry. Proof of ID is required of the winner(s).
4. All entries must be post-marked by October 23, 1992.
5. Winners to be announced at the COMDEX Show in Las Vegas on November 16, 1992.
6. Employees of Commodore Business Machines, Inc., Commodore Electronics Ltd., Commodore International Ltd., their advertising and promotional agencies and their immediate families are not eligible to enter this contest.
7. Entries will be judged by the staff of Commodore and a selected group of independent experts.
8. Entries will become the property of Commodore, which reserves the right to use or publish all entries received without further release or authorization. Winners acknowledge that Commodore has the right to publish their name and photo in publicity relating to this contest and/or Commodore's products. No entries will be returned, so please make a copy of your entry.
9. Contest is open only to residents of the U.S. and Canada.
10. Prizes awarded to winners will be shipped within 30 days of notification. Commodore will pay all shipping charges. Winner(s) will be responsible for all taxes.
11. Non-winning entries will not be acknowledged.
12. Void where prohibited.

TIMING AND PROGRAM DURATION

All entries must be postmarked by October 23, 1992. Winners will be announced at the COMDEX show in Las Vegas on November 16, 1992. Winner need not be present at the show in order to win.

MERCHANDISING SUPPORT

- Group Mailing
- Notices posted to nets and BBSs 9/25/92
- Insert in all fulfillment pieces for magazine and 800 number kits
- National Public Relations announcement

CONTEST RULES

★ Commodore is looking for the best reason, in 25 words or less for using an Amiga in the following applications:

• Video	• Entertainment	• Presentations
• Education	• Interactive	• Scientific/Medical
• Miscellaneous		

★ Amiga users of all ages and all professional and non-professional uses are eligible.

★ Contest entries will be cataloged and judged. Only one entry person and one application per entry is allowed. Entries will be judged by Commodore staff and a panel of independent experts. Proof of ID is required for the winner(s). Non-winning entries will not be acknowledged.

★ All entries must be postmarked by October 23, 1992. Winners will be announced at the COMDEX show in Las Vegas on November 16, 1992.

★ Entries will become the property of Commodore, which reserves the right to use or publish all entries received without further release or authorization. Winners acknowledge that Commodore has the right to publish their name and photo in publicity relating to this contest and/or Commodore's products.

★ No entries will be returned. Copies of the entry should be kept.

★ Contest is open only to residents of the United States and Canada.

★ Prizes awarded to the winner will be shipped within 30 days of notification. Commodore will pay all shipping charges. Winners will be responsible for all taxes.

★ Contest is void where not permitted or modified by law.

POWER UP

AMIGA™ GOES POWER PC™

THE INNOVATION LEAP INTO THE NEXT DECADE OF AMIGA-COMPUTING

If you also rank among the AMIGA users looking forward to tomorrow, we are delighted to inform you that there is life for the AMIGA after the 68000 version.

POWER UP
AMIGA™ GOES POWER PC™

Since its foundation, phase 5 digital products year after year has introduced new and significant innovations for the AMIGA - in 1993 the Fastlane Z3, the first Zorro-III-DMA-Controller, in 1994 the Cyberstorm 060, the world's first 68060 board for AMIGA systems, in 1995 the CyberVision64 and the Cyber-GraphX-software, which jointly have defined a new standard in graphic capabilities on the AMIGA or the BLIZZARD board for the AMIGA 1200, which in its present 4th generation is setting standards in respect of price and performance. This success is based upon the experience of the engineering team, which has been working with the AMIGA for almost ten years since intro-duction of the legendary A1000. phase 5 digital products has now imported all its expertise and know-how into a new sen-sational project, the PowerUp-program, which will provide the basis in 1996 for taking the decisive innovation leap into the next decade of AMIGA-Computing: the PowerPC-RISC-proces-sors will provide the AMIGA with a new and powerful heart.

68000 and then....

The 68060 processor represents the state-of-the-art perfor-mance peak of the 68k processors currently used in the AMIGA; it is installed in such products as the Cyberstorm 060/50, the BLIZZARD 1260 or the BLIZZARD 2060. Even though this proces-sor features outstanding topical performance and is the No.1 choice for all Power users seeking to expand and accelerate their system today, significant advance development with this processor family is not possible, as the 68060 will be the last of the 68k processors. Any increases of clock rates would only result in marginal capacity increases.
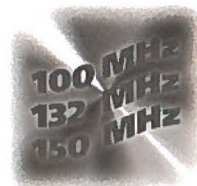
Sufficient power ultimately is the only option

The PowerPC-RISC-processors provide a way out of this dead-end road by bridging the gap between the 68k processors and the AMIGA future. With their enormous power performance at favorable prices and the innovative energies of the producers Motorola and IBM which are advancing PowerPC architecture as alternative to conventional PC processors, the PowerPC pro-cessor family provides the solution assuring AMIGA a position among the future high-performance desktop workstations.

And that's not all: by combining this new processor generation with the AMIGA's unique features, this computer's performan-ces in numerous specific applications are fully developed and raised to new heights. A number of PowerPC models in various performance classes already obtainable as well as a wide range of future models even more powerful in addition offer the right processor for each application and price range. With a fast RISC architecture and their high Floating-Point-Performance, the PowerPC processors today and in the future are more than adequately equipped for the most demanding tasks in the sec-tors multimedia, 3-D, image processing, video processing, ren-dering, and animation.

Hardware for the next millennium

In mid-1996, the PowerBoards marketed by phase 5 digital products will introduce two novel types of PowerPC processors as new heart for the AMIGA: MPC603e-processors with clock rates of 100MHz upwards will open new performance dimen-sions in the lower price bracket, while MPC604 processors (also in the range above 100 MHz) will be installed in accelerator boards for professional utilization. 150MHz versions of these CPUs have already been announced for 1996. In addition, more high-performance members of the PowerPC family including the genuine 64-bit processor MPC620 with clock rates up to 300 MHz are being developed and will open new performance dimensions in the near future. Next to utilization of PowerPC processors, the phase 5 PowerBoards naturally will also feature other state-of-the-art technical details. 64-bit memory expansi-on options naturally are standard, just as much as a fast 64-bit local bus system (with optional PCI-Bridge) which allows connection of both favorably-priced accessories and high-per-

formance expansions for the PowerBoards. The PowerBoards offered by phase 5 digital products will be offered in a number of capacity categories and price brackets depending upon the-performance category between approximately US$ 700 and US$ 1,500 initially for AMIGA 1200, AMIGA 3000, and AMIGA 4000 - naturally with the outstanding quality, compatibility, and flexible expansion options typical for phase 5 products. There is a wide variety of system software described below as well as CyberGraphX3.0 Native, which is included in the phase 5 Power-Board's scope of delivery.

The full program

The phase 5 digital products PowerUp program is concerned with development of a PowerPC solution suited as complete and convenient upgrade of existing AMIGA systems based upon 68k technology. In addition to development of high-performance hardware for various AMIGA computers, it thus also encompasses adaptation to the new PowerPC processors. A team of experienced system programmers is involved in realization of these necessary phases; it is developing an image of the Exec and Multitasking function of the AMIGA-OS into PowerPC native code. This image - fully compatible to the previous AMIGA Exec - as lowest level and supported by the superior 68k emulator will allow utilization of the existing operation system versions 3.0 and higher. Native coding of the important Exec and Multitasking functions will guarantee a high level of performance from the very beginning. The remaining operation system functions are initially generated in the fully compatible emulation and are optimized as required in following versions via new function libraries on PowerPC native code.

CyberGraphX 3.0 Native

In order to avoid an essential performance bottleneck from the very beginning, a new version of the popular CyberGraphX software will be developed in the scope of the PowerUp project. It will be available as PowerPC native code and thus will considerably accelerate the entire graphical output on graphic boards or also (a new feature for version 3.0 and higher) via the AA chipset of the AMIGA 1200 and the AMIGA 4000. As the high demand on graphic output in today's multimedia applications requires a major share of the computer performance, this version of CyberGraphX adapted to the PowerPC processors will immediately provide for massive performance increases and a high utilization rate of the PowerPC processors' RISC perfor-

mance. In addition, CyberGraphX functionally will be expanded by new interfaces for 3D applications and multimedia allowing utilization of a new generation of applications on the AMIGA. The availability of powerful 3D routines and multimedia functions for audio and video independent from hardware will allow software producers to generate programs at extremely low costs which are operable on a wide variety of computer configurations. This considerably increases the system's attractivity and will result in a record demand for high-quality applications and for games of the next generation.

We are not alone

Already at commencement of the PowerUp project, a large number of leading software producers, among these Almathera, Maxon Computer, ProDad, and Softwood, to name just a few, plans to actively support the PowerUp project by adapting their high-performance programs to the new PowerPC processors. The anticipated support by additional software producers will provide for a wide range of extremely capable native software already at the time the PowerPC accelerator boards are introduced to the market.

In the scope of the PowerUp project, phase 5 digital products has already initiated far-reaching measures to support software producers on the AMIGA market. Evaluation boards enabling software development on the AMIGA under a Power-PC processor will already be available in early 1996 for established and new commercial developers. Software tools and development systems are being prepared by phase 5 digital products and partner companies. Commercial developers will be provided full support by phase 5 digital products; development of strategical applications also is supported in direct cooperation with Motorola.

⁞P̲OWER U̲P̲⁆

AMIGA™ GOES POWER PC™ Information Coupon

Simply mail this coupon if you are a user requiring more information about the new PowerBoards by phase 5 digital products or as software developer are interested in the PowerUp program and our support options. We will make the required information available for you as soon as possible.(product documentation not before the first quarter of 1996)

❑ I am an AMIGA user interested in the phase 5 PowerBoards. Please send me further information including prices
for your PowerPC accelerator boards as soon as possible for
        ❑ AMIGA 1200   ❑ AMIGA 3000(T)   ❑ AMIGA 4000(T)

❑ I already own a phase 5 accelerator board. Please also inform me about the planned upgrade program.

❑ We are software developers and plan
        ❑ commercials developments ❑ PD or shareware-developments
for AMIGA or are interested in converting existing applications to PowerPC.
Please send me information on
        ❑ your PowerUP developer support programm and/or ❑ PowerPC evaluation boards as soon as possible.

Annotation for software developers: to the extent possible, please enclose detailed product or project description relating to your software or additional information, if possible also a brief summary on your company or developer group and all required contact addresses and contact partners. Sincere thanks.

Secure your investments

But what can today's AMIGA users do, who desperately need more power for their applications and cannot or are unable to wait between six and eight months until the new processor board generation is on the market? Here, too, phase 5 digital products has thought of its users' demands and therefore offers appropriate upgrade solutions: all customers who have purchased a 68k acceleration board from phase 5 digital products after September 1, 1995 will be made special upgrade offers for purchasing one of the new PowerPC acceleration boards* upon submission of a copy of their retail dealer's purchase receipt. A more extensive trade-in program is planned for owners of higher-price-bracket 68060 boards, which will facilitate conversion to the PowerPC generation. phase 5 thus already today provides the opportunity to utilize a 68k accelerator for required additional performance and at the same time to invest into the future. We won't leave you out in the cold.

The upgrade program is available to all registered initial users who have purchased a 68k turbo board from the phase 5 production through authorized retailers or directly from phase 5 digital products. Purchasers of used appliances are exempted from this offer.

Just dreams of the future?

Yes - but of the near future. Already in full operation today and supported by massive investments, the PowerUp program will result in PowerPC-based accelerator boards for various AMIGA computers by mid-1996. phase 5 digital products is one of the leading and best-established producers on the AMIGA market; its capabilities and innovative energies give you the security of purchasing state-of-the-art and proven technology for your AMIGA's future. If you as user are interested in the new performance dimensions of AMIGA computing or if you as developer want to take a leap into the future with PowerUp, simply mail us the attached info coupon. You will receive the requested information on the PowerUp program as soon as it is available.

WHERE DO YOU WANT TO BE TOMORROW?

In der Au 27
61440 Oberursel • Germany
Telephone   +49 (0) 6171 58 37 87
Tech. hotline +49 (0) 6171 58 37 88
Fax   +49 (0) 6171 58 37 89

Effective October 1995. We reserve the right to alter prices, technology or scope of delivery. The stated product names are dealer brands or trademarks of the respective producers. AMIGA is a registered trademark of ESCOM AG. PowerPC is a trademark of the IBM Corporation.

phase 5
DIGITAL PRODUCTS

POWER UP→
AMIGA™ GOES POWER PC™ *Information Coupon*

Please mail in a postpaid window envelope to:

phase 5 digital products
POWERUP-Programm
In der Au 27

D-61440 Oberursel
Germany

Full name: _____

Company: _____

Position: _____

Street: _____

Zip code, city: _____

Country: _____
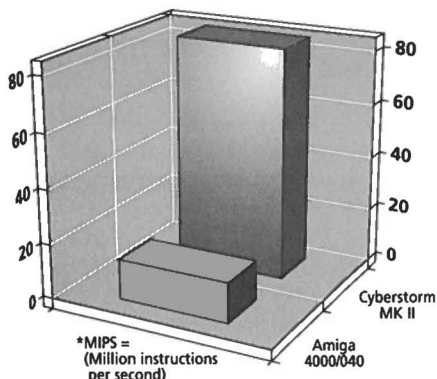
Telephone: _____

Telefax: _____

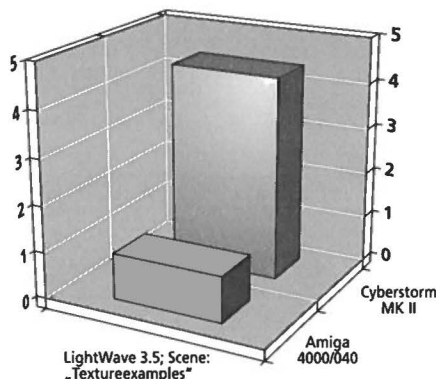E-Mail: _____

Remarks:

CYBERSTORM MK II

Performance data CYBERSTORM MK II

MIPS*-Test

**Application test LightWave rendering**

Application test AdPro

*MIPS =
(Million instructions
per second)

Cyberstorm MK II

Amiga 4000/040

LightWave 3.5; Scene:
„Textureexamples"

Cyberstorm MK II

Amiga 4000/040

Image manipulation of 1,6MByte
IFF-file (24 bit picture)
Convolution/Big sharpen

Cyberstorm MK II

Amiga 4000/040

**Reference system Amiga 4000/40 with
16 MByte FastRam = Absolut-Value in MIPS**

**Reference system Amiga 4000/40 with
16 MByte FastRam = Factor 1**
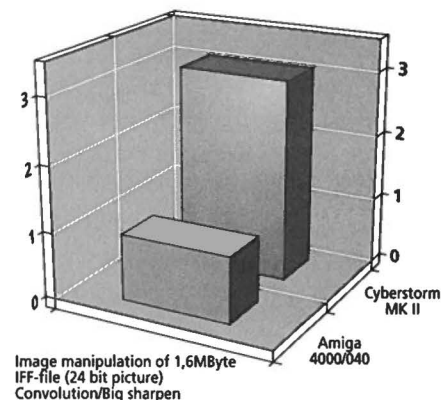
**Reference system Amiga 4000/40 with
16 MByte FastRam = Factor 1**

Available for all A4000, A4000T, as well as A3000 and A3000T models, the world's leading 68060 accelerator design takes another step forward into the future. With the brand-new Cyberstorm Mk. II you can now expand your creativity to new horizons for a price that is a real bargain! Based on the development knowledge of more than 18 months of 68060 experience, our engeneering team has realized a new generation of accelerators for the AMIGA. These advanced accelerators bring the incredible 68060 power to you for a price that nobody dared to dream of in the past! Check out the features of this successor of the award-winning Cyberstorm accelerator:

▶ *Available in a 50 MHz 68060 version, ready for 66 or 80 MHz versions (upgrades to faster versions will be possible when faster CPUs are shiping by Motorola)*

▶ *Up to 5 times and more faster than a stock A4000/040, with peak rates of more than 80 MIPS @50 MHz*

▶ *Superior floating point performance gives speed increases by a factor of 5 and more over an A4000/040 with High End applications such as Lightwave 3D*

▶ *Integrated memory upgrade option for to 128 MByte with industry-standard SIMMs. This ultra-fast burst-mode memory provides high-performance operation for all memory-hungry applications*

▶ *All installed memory is always configured as one contiguous block of memory, independent of the size of the modules used, and will be configured automatically without any jumper change or software configuration by the user*

▶ *Full Burst Mode access to the Zorro-III bus allows up to 32 Mbyte/sec. transfer into the Zorro-III devices which allow burst mode access, such as the upcoming 2-GO! DSP board from phase 5*

▶ *A fully-featured expansion slot allows the use of existing Cyberstorm expansion modules, such as the Fast SCSI-II DMA controller and other upcoming high-performance expansions*

▶ *The Next Generation 68060 Accelerator from the company who developed the first 68060 board in 1994, and ships 68060 boards in quantities since early 1995*

▶ *Go for true 68060 power today! This real break-through in AMIGA Accelerator design will cost you significantly less than you expect and offers an incredible value*

After this new product had been delayed for several month due to the lack of a constant supply of 68060 CPUs, it will now be coming to your local store in early 1996. Ask Your dealer for more details!

Your dealer:

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Fax   +49 (0) 6171 58 37 89

phase 5
DIGITAL PRODUCTS

BLI ARD
1230 IV URBO OARD

With its BLIZZARD 1230-IV Turbo Board, phase 5 digital products has already presented the 4th generation of the powerful turbo board series for the AMIGA 1200. Based upon the experience made with the proven predecessors models, which ranked outstandingly well in numerous tests conducted by the international press and were elected Product of the Year on several occasions, the BLIZZARD 1230-IV combines an exeedingly high degree of performance, flexible expansion options, expansive functionality, and an extremely attractive price. These properties range from memory expansion options up to 128 Mbytes and the socket for the mathematical coprocessor over features such as fully-automatic RAM size detection all the way to the high-power 32-bit DMA port for connecting the FAST SCSI-II-Controller BLIZZARD SCSI-KIT IV. These outstanding characteristics in high-quality finish and state-of-the-art SMD technique define a top-quality product setting standards in its class.

Performancedata BLIZZARD 1230-IV Turbo Board:

AIBB V6.1 Benchmarktest
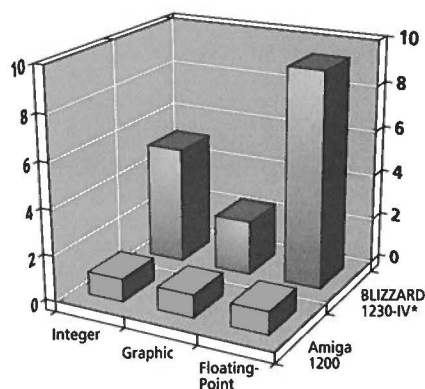
*with 50 MHz 68882 Coprocessor

Reference system Amiga 1200 with
8 MByte FastRam = Factor 1

Application test LightWave rendering

LightWave 3.5; Scene: „Textureexamples"

*with 50 MHz 68882 Coprocessor

Reference system Amiga 1200 with
8 MByte FastRam = Factor 1

Application test AdPro

*AdPro V2.5.1; Scaling of a 24-Bit picture (640 x 512 Pixel) into halve size.
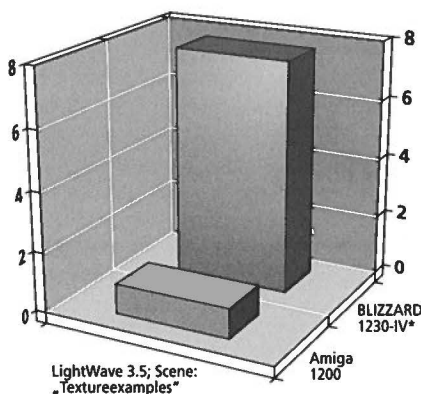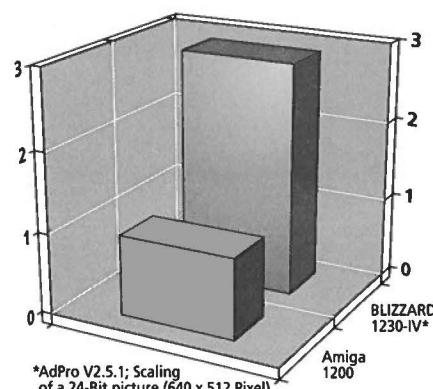
*with 50 MHz 68882 Coprocessor

Reference system Amiga 1200 with
8 MByte FastRam = Factor 1

Technical data BLIZZARD 1230-IV Turbo Board:

▶ High Performance Accelerator Board for the AMIGA 1200, with 50 MHz 68030 Processor with MMU for performance increases between 400 and 500%

▶ A 72-pin SIMM socket allows easy memory upgrades by use of standard 32 bit SIMMS up to 128 Mbyte

▶ Autoconfiguring memory and optional MAPROM function for copying the operating system into the fast memory

▶ A very fast memory design allows high memory performance resulting in excellent overall system performance and significantly accelerated graphics

▶ Socket provided for Maths Co-processor 68882 with 50 MHz clock rate

▶ A DMA expansion connector allows upgrading of the BLIZZARD 1230-IV with expansion modules such as the BLIZZARD SCSI-KIT IV Fast SCSI-II controller

▶ Asynchronous design for full genlock compatibility

▶ 68030 may be disabled with a simple keystroke on boot up to enable A1200 to revert to 68020 mode allowing full game compatibility

▶ Battery backed, self-recharging clock with calendar

▶ fits easily into the Trapdoor Expansion slot in the base of your AMIGA 1200

▶ Does not invalidate On-Site Warranty

▶ Highest quality of manufacturing incorporating latest SMD technology

▶ Made in Germany with a 12 months parts and labour Warranty

Expansion options:

The BLIZZARD SCSI Kit IV is a fast SCSI-II DMA controller which allows the instant access to a large variety of SCSI-I and SCSI-II devices available on the market. It's 32-Bit DMA engine transfers up to 10 MBytes/sec. with up to 80% free CPU time, defining a new performance dimension for an A1200 expansion. A second SIMM socket allows the memory on the BLIZZARD accelerator to be expanded by up to 128 MBytes. These features make the BLIZZARD SCSI Kit IV ideally suited for all High End applications on the AMIGA 1200.

▶ FAST SCSI-II DMA Controller for the BLIZZARD 1230-IV or BLIZZARD 1260 Turbo Board, with full autoboot capability

▶ Transmission rates up to seven Mbytes/sec. asynchronous and up to ten Mbytes/sec. synchronous on the SCSI-bus.

▶ 72-pin standard SIMM socket for memory expansion by up to 128 MB in addition to the memory already installed on the BLIZZARD Turbo Board, completely auto-configuring.

▶ The processor on the BLIZZARD Turbo Board is not burdened because of the DMA transmission (Direct Memory Access). The BLIZZARD SCSI-KIT IV therefore is ideally suited for multimedia applications.

▶ Comprehensive software including the dynamic caching software DynamiCache and the CD-ROM file system CDrive facilitates working with slower SCSI devices and allows immediate connection of CD-ROMs.

▶ Made in Germany, 12 months warranty.

Your dealer:

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Telephone +49 (0) 6171 58 37 87
Fax +49 (0) 6171 58 37 89

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phase 5
DIGITAL PRODUCTS

NATIONAL AMIGA

AMIGA

WINTER '95 CATALOG

NATIONAL AMIGA CANADA
1229 Marlborough Ct. Unit 1401
Oakville, Ontario L6H3B6
Phone: (905) 845-1949
Fax: (905) 845-3295
email: gscott@interlog.com
http://www.interlog.com/~gscott/NationalAmiga.html

Power Supplies and Accessories

1084 Monitor Cable 23M to 9M	Commodore	$29.95
1084/1080 Monitor Cable 23M to 9F	Commodore	$29.95
1084/Magnavox Monitor Cable 23M to din	Commodore	$29.95
200 WATT P/S for 500/600/1200/CD32	National Amiga	$49.95
3-Button MegaMouse	AlphaData	$39.95
A3000 300 Watt External PS	Micro R&D	$224.95
A3000 Replacement PS 200 Watts	Micro R&D	$199.95
A500 Power Supply Cable (5-pin DIN)	Micro R&D	$19.95
Amiga 1200 (2 meg RAM, no hard-drive)	Amiga Tech.	$899.95
Amiga 4000T (6 meg RAM, 1 GIG Hard-Drive)	Amiga Tech.	$3999.95
Bigfoot 2000 (A2000) 300 Watt PS	Micro R&D	$279.95
Bigfoot 500 (500/600/1200) 200 Watt PS	Micro R&D	$149.95
Bigfoot CD32 (CD32) 200 Watt PS	Micro R&D	$149.95
Boing! Optical Mouse	Interworks	$99.95
DB23-15 RGB Adaptor	National Amiga	$20.00
DB25M-DB25M Cable 6'	Blue Diamond	$9.95
Dell High Density External Drive	Dell	$179.95
Eklipse Amiga Mouse	Eklipse	$29.95
PowerXL High Desnity Drive External	Power Comp.	$209.95
Pyramid Mouse Master	Micro R&D	$54.95
Pyramid Swifty Mouse (3 buttons)	Micro R&D	$49.95
Tac 3 Joystick	Suncom	$21.95
Tac 30 Joystick	Suncom	$24.9

ESCOM Amigas
Amiga A4000/040 only $3899.95
6 Megabytes RAM and 1 GIG SCSI Hard-Drive!

Amiga A1200 $899.95
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Chips and Memory

1 Meg 30-pin SIMM	RAM	$59.95
4 Meg 30-pin SIMM	RAM	$189.95
4 Meg 72-pin SIMM	RAM	$189.95
68882-25Mhz FPU	Motorola	$79.95
68882-33Mhz FPU	Motorola	$119.95
8 Meg 72-pin SIMM	RAM	$374.95
8373 Denise	Commodore	$59.95
8520 CIA	Commodore	$19.95
Alice IC	Commodore	$64.95
Amber	Commodore	$59.95
AmigaDOS 3.1 Kit (500/2000/2500)	Village Tronic	$199.95
AmigaDOS 3.1 Kit (A1200)	Village Tronic	$219.95
AmigaDOS 3.1 Kit (A3000)	Village Tronic	$219.95
AmigaDOS 3.1 Kit (A4000)	Village Tronic	$219.95
Denise 8362	Commodore	$29.95
DMAC -04	Commodore	$99.95
Fat Gary	Commodore	$69.95
Gary 5719	Commodore	$29.95
GuruROM for GVP SCSI Interfaces	Ralph Babel	$124.95
GVP SIMM-32 1 Meg 60ns	GVP	$99.95
GVP SIMM-32 16 Meg 60ns	GVP	$1099.95
GVP SIMM-32 4 Meg 60ns	GVP	$299.95
KwikStart II (ROM board for 1000)	DKB	$89.95
Lisa IC	Commodore	$64.95
MegaCHIP (2 meg CHIP RAM 500/2000)	DKB	$329.95
MegaCHIP 2000 (used,1 only)	DKB	$240.00
MultiStart II (ROM Switch 500/2000)	DKB	$44.95
Paula 8364	Commodore	$29.95
Ramsey -07	Commodore	$99.95
SuperDenise 8373	Commodore	$64.95
The Clock (A1200)	DKB	$26.95
WD SCSI -08 Chip	Western Digital	$49.95

Accelerators / Hard Drive Interfaces

Slingshot Pro A2000 Upright Slot 500	Micro R&D	$74.95
CyberStorm 060 for A4000	Phase 5	$1799.95
CyberStorm I/O for 060 Card	Phase 5	$794.95
CyberStorm SCSI for 060 Card	Phase 5	$369.95
Blizzard 1220/4	Phase 5	$429.95
Blizzard 1230-III 50MHz 68030	Phase 5	$429.95
Blizzard 1230-III SCSI	Phase 5	$169.95
DKB 1202 (A1200 RAM and FPU socket)	DKB	$169.95
DKB 2632 (RAM Board for 2630)	DKB	$289.95
DKB 3128 (3000/4000 RAM Board)	DKB	$399.95
DKB 4091 SCSI Interface (3000/4000)	DKB	$439.95
DKB Cobra 28 1200 (28MHz 030,NO MMU)	DKB	$239.95
DKB Cobra 40 1200 (40MHz 030,NO MMU)	DKB	$349.95
DKB Ferret SCSI Option	DKB	$159.95
DKB Mongoose 1200 (50MHz 030 and 882)	DKB	$499.95
MTec 68020 Accelerator for 500	MTEC	$149.95
Warp Engine 3028 w/28MHz 040 for A3000	Macrosystems	$1299.00
Warp Engine 3033 w/33MHz 040 for A3000	Macrosystems	$1699.00
Warp Engine 3040 w/40MHz 040 for A3000	Macrosystems	$1999.00
Warp Engine 4028 w/o 040 for A4000	Macrosystems	$1099.95
Warp Engine 4033 w/33MHz 040 for A4000	Macrosystems	$1729.00
Warp Engine 4040 w/40MHz 040 for A4000	Macrosystems	$1999.00
DataFlyer 2000 IDE Interface	Expansion Sys	$149.95
Dataflyer 2000 SCSI Interface	Expansion Sys	$149.95
DataFlyer SCSI+ A1200	Expansion Sys	$149.95
Secure Key (2000/3000/4000)	DKB	$64.95
DataFlyer SCSI+ A4000	Expansion Sys	$159.95
DataFlyer XDS 1200 External IDE Box	Expansion Sys	$129.95
GVP 4008 Zorroll SCSI-Interface	GVP	$209.95
IDE 2 Drive Ribbon Cable	Blue Diamond	$9.95
Octagon 2008 SCSI Interface	Alfa Data	$214.00
Octagon 4008 SCSI Interface	Alfa Data	$219.95
SCSI 4 Drive Ribbon Cable	Blue Diamond	$12.95
SCSI 6 Drive Cable	Blue Diamond	$14.95
SCSI System Cable 3' (DB25-CENT)	Blue Diamond	$19.95
SCSI-TV A570 SCSI Interface for A570	AmiTrix	$209.95
SCSI-TV SCSI Interface for CDTV	AmiTrix	$199.95
Squirrel SCSI (PCMCIA SCSI-2)	Oregon	$154.95

Networking Hardware And Software

Amiga Envoy v2	IAM	$74.95
AmigaLink Single Node	Spectronics	$169.95
AmigaLink Starter Kit (2 nodes)	Spectronics	$349.95
AmiTCP/IP v4	NSDi	$149.95
Ariadne Ethernet Card with 2 Parallel Ports	Village Tronic	$409.95
Commodore 2060 Arcnet Card	Commodore	$89.95
CrossDOS Plus	Consultron	$84.95
CrossMAC	Consultron	$99.95
Enlan-DFS 2.0	Interworks	$359.95
Enlan-DFS v2	Interworks	$369.94
GPFax Generic Class 1 or Class 2	GPSoft	$99.95
GVC 14.4k v32bis Modem w/14.4k FAX	GVC	$139.95
GVC 14.4k v32bis Modem w/14.4k FAX/Voice	GVC	$164.95
GVC 28.8k Modem V.34 w/14.4k FAX	GVC	$299.00
GVP I/O Extender (2 serial,1 parallel)	GVP	$169.95
Hydra Systems Ethernet Card	Interworks	$329.95
I-Card PCMCIA Ethernet (repricing)	Interworks	$449.95
Internet Info (12000 internet related documen	Walnut Creek	$44.95
Link Itl	Legendary	$54.95
MultiFace II (1 serial,1 parallel)	Pre'Spect	$154.95
Multiface III (2 serial,1 parallel)	Alpha Data	$149.95
MultiFace IV (2 serial,2 parallel)	Pre'Spect	$194.95
Parnet/Pronet/Pitnet Cable 15'	National Amiga	$20.00
Parnet/Pronet/Pitnet Cable 6'	National Amiga	$15.00
Screamer Net (8 nodes)	NewTek	$2295.95
T-Net Rendering Farm Software	Interworks	$429.95
T-Net Rendering Farm Software	Interworks	$429.95
TCP/IP with NFS	Interworks	$429.95
Termite (terminal software)	Oregon	$64.95
TrapFAX	Village Tronic	$129.95

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Address It!	Legendary	$44.95
AlphaPaint	Innovision	$699.95
Ami-File-Safe (Pro)	Fourth Level	$119.95
Ami-File-Safe (user)	Fourth Level	$59.95
AmiBack Plus Tools (Back and Tools)	JDL	$129.95
AmiBack Tools v1	JDL	$79.95
AmiBack v2	JDL	$79.95
Art Department Professional	ER/AVID	$219.95
AsimCDFS v3	ASIM Ware	$79.95
BEST Business Management v3	Clackamas	$199.95
Brilliance 2	Digital Creations	$79.95
CanDo v3	Inovatronics	$359.95
CrossDOS Plus	Consultron	$84.95
CrossMAC	Consultron	$99.95
Datastore	Soft-Logik	$164.95
dataTAX	Legendary	$44.95
Deluxe Paint V	E.A.	$159.95
Devpac 3	Oregon	$139.95
Director 2.0	Right Answers	$69.95
Disk Expander	DKB	$69.95
DiskSalv 3	IAM	$49.95
Distant Suns 5.01	Virtual Reality	$89.95
Easy Ledgers 2	GP Soft	$419.95
Edge v1 Text Editor	Inovatronics	$99.95
Final Data	Softwood	$89.95
Final Writer 3	Softwood	$159.95
FinalWriter 4	Softwood	$159.95
GigaMem v3	Inovatronics	$139.95
Gradebook	Legendary	$29.95
Invoice It!	Legendary	$49.95
Master ISO	ASIM Ware	$649.95
MaxonMAGIC	Oregon	$49.95
On The Ball	Oregon	$49.95
Opus 5.0	GPSoft	$129.95
PageStream 3	Soft-Logik	$339.95
Personal Bundle (Paint and Font)	DKB	$129.95
Personal Editor	Nucleus Elec.	$719.95
Personal Font Maker	DKB	$69.95
Personal Paint	DKB	$69.95
Pretium v1 (Like Quicken)	JDL	$79.95
Proper Grammar II	Softwood	$89.95
Studio Printer Software V2	NoahJi's	$154.95
TapeWorm FS v1	JDL	$119.95
Turbo Print Professional	Village Tronic	$129.95
TurboCalc v2	ALS	$74.95
TurboCalc Version 2	ALS	$59.95
TV Paint Junior	Village Tronic	$59.95
TV Paint v2	Village Tronic	$439.95
TypeSmith 2.5	Soft-Logik	$189.95
WordWorth	Soft-Logik	$219.95

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Audio Hardware and Software

AD516 Digital Audio Card	Sunrize Ind	$1699.95
Aura (12-bit PCMCIA direct to disk)	Oregon	$209.95
ProMIDI	Oregon	$69.95
Pyramid MIDI Interface 1In/2Out/2 Thru	Micro R&D	$79.95
Sequencer One	Oregon	$49.95
Sequencer One Plus	Oregon	$109.95
Toccata 16-bit Audio Card	NoahJi's	$629.95

Programming

Devpac 3	Oregon	$139.95
Gamesmith v2	Oregon	$159.95
HighSpeed Pascal	Oregon	$189.95
HiSoft Basic 2	Oregon	$154.95
SAS/C 6.x	SAS	$209.95

3D Graphics and Animation Software

Anim Workshop	Axiom	$149.95
Backdrop Construction Set	Dimension Tech	$59.95
Broadcast Titler 2 Super-hi-res	Innovision	$249.95
Broadcast Titler 2 Super-hi-res	Innovision	$249.95
BT2 Font Enhancer	Innovision	$159.95
BT2 Font Enhancer	Innovision	$159.95
BT2 Font Pack 1	Innovision	$159.95
BT2 Font Pack 1	Innovision	$159.95
BT2 Font Pack 2	Innovision	$159.95
BT2 Font Pack 2	Innovision	$159.95
BT2 International Fonts	Innovision	$69.95
BT2 International Fonts	Innovision	$69.95
Composite Studio	Dimension Tech	$174.95
Fontasia 300 Outline Fonts Postscript or CG	Micro R&D	$69.95
Great Toaster Graphics	Desktop Images	$59.95
Hollywood F/X	Synergy Int.	$439.95
Image F/X v2.1	Nova Design	$359.95
ImageMaster R/T (Black Belt Systems)	DKB	$99.95
Imagine 3.0 NTSC	Impulse	$499.95
Jurassic Collection	Dimension Tech	$129.95
Kitchen Sync TBC	Digital Creations	$1849.95
Lightwave 3d V4.0 Amiga (Not avail)	NewTek	$1259.95
Lightwave 3d V4.0 DEC Alpha	NewTek	$1259.95
Lightwave 3d V4.0 Intel-Windows	NewTek	$1259.95
Lightwave 3d V4.0 Intel-Windows NT	NewTek	$1259.95
Lightwave 3d V4.0 MIPS	NewTek	$1259.95
Lightwave 3d V4.0 Upgrade (to any version)	NewTek	$219.95
MainActor Professional	Village Tronic	$94.95
Makepath 1	Virtual Reality	$54.95
MM Foto Real	ALS	$189.95
MM Low Rez	ALS	$119.95
Montage 24 AGA	Innovision	$359.95
Montage Fonts 1	Innovision	$199.95
Montage for Video Toaster	Innovision	$499.95
Montage for Video Toaster	Innovision	$499.95
Montage Postscript Module	Innovision	$289.95
Motion Master I	Metro Grafx	$164.95
Motion Master II	Metro Grafx	$164.95
Music Collections (50 Lightwave Objects)	Dimension Tech	$79.95
Pegger 2.0	DKB	$99.95
Pegger 2.0	Heifner Comm.	$99.95
Personal Bundle (Paint and Font)	DKB	$129.95
Personal Editor	Nucleus Elec.	$719.95
Personal Font Maker	DKB	$69.95
Personal Paint	DKB	$69.95
PhotoGenics 1.252	Almathera	$169.95
Pixel 3D Pro	Axiom	$249.95
Scala MM300 - Special	Scala	$149.95
Screamer Net (8 nodes)	NewTek	$2295.95
Sparks	Metro Grafx	$189.95
Terraform 2.1	Virtual Reality	$54.95
VistaLite	Virtual Reality	$64.95
VistaPro 3.0	Virtual Reality	$89.95
WaveLink	Axiom	$59.95
Wavemaker 2.0	Radiosity	$289.95
World Construction Set	Questar	$259.95

Hard-Drives (Contact Us For Current Pricing)

Conner 1 GIG SCSI-II Hard-Drive	Conner	$399.95
Conner 1 GIG IDE Hard-Drive	Connor	$489.95
Quantum 1.2 GIG IDE Hard-Drive	Quantum	$349.95
Quantum 1.2 GIG SCSI-II Hard-Drive	Quantum	$449.95
Quantum 540 Meg IDE Hard-Drive	Quantum	$269.95
Quantum 540 Meg SCSI-II Hard-Drive	Quantum	$279.95

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CD-ROMs

Aminet 3 CD June 1994	Schatztruhe	$34.95
Aminet 4 CD November 1994	Schatztruhe	$29.95
Aminet 5.0 CD-ROM	Schatztruhe	$44.95
Aminet 6 CD-ROM	ALS	$39.95
Aminet 7 CD-ROM	ALS	$39.95
Aminet 8 CD-ROM	ALS	$39.95
Aminet Set 1	ALS	$69.95
Aminet Set January 1995 (4 CD's)	Schatztruhe	$69.95
Aminet Volume 6	ALS	$34.95
AsimCDFS v3	ASIM Ware	$79.95
AsimCDFS v3.x	ASIM Ware	$79.95
Beauty Of Chaos	ALS	$38.95
Cathedral	Dimension Tech	$59.95
CD-BOOT	ALS	$79.95
CD32 Competition Pro Control Pad	Happ Controls	$49.95
CD32 SX-1 (off sale)	HiTech	$319.00
dataMIX CD #1	Legendary	$34.95
FishMarket CD	ASIM Ware	$34.95
Freshfish CD	ALS	$39.95
FreshFonts Volume 2	ALS	$39.95
FrozenFish-PC	ALS	$44.95
Gamers' Delight	ALS	$59.95
Gateway! (NetBSD UN*X 1.0)	ALS	$34.95
Gifs Galore (over 5000 gifs)	Walnut Creek	$44.95
Goldfish (2 CD's)	ALS	$39.95
Goldfish Volume 1	ALS	$32.95
Goldfish Volume 2	ALS	$34.95
Goldfish Volume 3	ALS	$39.95
Light-ROM (Lightwave Objects)	ALS	$59.95
LIGHT-ROM Volume 1	ALS	$54.95
LIGHT-ROM Volume 1	ALS	$54.95
LIGHT-ROM Volume 2	ALS	$54.95
LIGHT-ROM Volume 2	ALS	$54.95
Magic Illusions	ALS	$34.95
Meeting Pearls Volume 2	ALS	$29.95
MRD Vol 1: Transition/PSFonts/CGFonts	Micro R&D	$44.95
MRD Vol 2: Entire Natures Backdrop + NASA	Micro R&D	$84.95
MRD Vol 3: Desktop Publishing: Fonts/Clips	Micro R&D	$34.95
MRD Vol 4: Video Pro's: 200 Framestores/650	Micro R&D	$34.95
Music Workshop	Walnut Creek	$54.95
Odds'n Ends (200 Lightwave Objects)	Dimension Tech	$59.95
ProPics 1: Scenic and Landscape	Legendary	$34.95
ProPics 2: Textures and Patterns	Legendary	$34.95
ProPics 3: Still Life	Legendary	$34.95
ProPics 4: Abstract	Legendary	$34.95
ProPics: All 4 Volumes	Legendary	$74.95
Sentimental Wings (aircraft history)	Walnut Creek	$59.95
Sound Ideas Sound Effects CD	Legendary	$39.95
Space & Astronomy	Walnut Creek	$44.95
Texture Gallery Volume 1	ALS	$59.95
Texture Heaven CD #1	ASIM Ware	$39.95
Texture Heaven CD #2	ASIM Ware	$39.95

SHIPPING OPTIONS:

Canada Post COD is the cheapest but not very fast.
CanPar does CODs and is a little more expensive, but much faster.
UPS is more expensive, but has the same level service as Canpar.
Purolator is much more expensive but with nicer trucks.
Federal Express is best for international shipping but doesn't do COD.
International shipments may be sent by Federal Express or Canada Post. UPS is not recommended unless it can be billed to the receivers

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Network Your Amigas!
Connect easily and inexpensively with the A2060 Arcnet cards. Plug them into any 2000/3000/4000 and use AmiTCP or Envoy.
A2060 Arcnet Card only $89.95 each!

Video Hardware

BreadBoard	Prevue Tech	$489.95
CyberVision64 2 Meg (re-pricing)	Phase 5	$CALL
CyberVision64 4 Meg (re-pricing)	Phase 5	$CALL
G-Lock NTSC	GVP	$399.95
MegaCHIP (2 meg CHIP RAM 500/2000)	DKB	$329.95
MegaCHIP 2000 (used,1 only)	DKB	$240.00
Pablo For Picasso	Village Tronic	$339.95
Personal Single Frame Controller	Nucleus Elec.	$489.95
Picasso II - 2 Meg	Village Tronic	$549.95
Retina External Switcher (Z2,Z3)	NoahJi's	$219.95
Retina Internal Encoder (Z3)	NoahJi's	$129.95
Retina Z2 Graphics Board w/4 Meg	NoahJi's	$769.95
Retina Z3 Graphics Board w/4 Meg	NoahJi's	$1149.95
Supergen SX	Digital Creations	$929.95
Sync Strainer	Prevue Tech	$69.95
Sync Trap	Prevue Tech	$49.95
Toast Timer	Prevue Tech	$419.95
Video Slot Box	Digital Creations	$1249.95
Video Toaster 4.0 Software CD-ROM	NewTek	$719.95
Video Toaster 4.0 Software CD-ROM andDisks	NewTek	$769.95
Video Toaster 4000 (for 2000/3000 and 4000)	NewTek	$2895.00
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Absolutely no refunds on any products. We are not responsible for performance but will let you in on all the experience we have had with the product. We will not sell you something we know does not work well.

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Hardware: No refunds. In some cases we can exchange item for equal value or credit as long as item is still in a resalable condition. Item must have been purchased within last 30 days from National Amiga. We are not responsible for damage due to improper installation.

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Any goods returned MUST have a Return Materials Authorization clearly marked on the package or the shipment will be refused. When we receive the package the item will be tested and at that time deemed defective and repaired/replaced at National Amiga's descretion. Items found not to be defective will be returned to the customer at the customers expense.

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Check our World Wide Web address! It's available 24 hours a day, has product descriptions and information, weekly specials, links to other Amiga related web sites, technical information and items that we are looking for. *http://www.interlog.com/~gscott/NationalAmiga.html*

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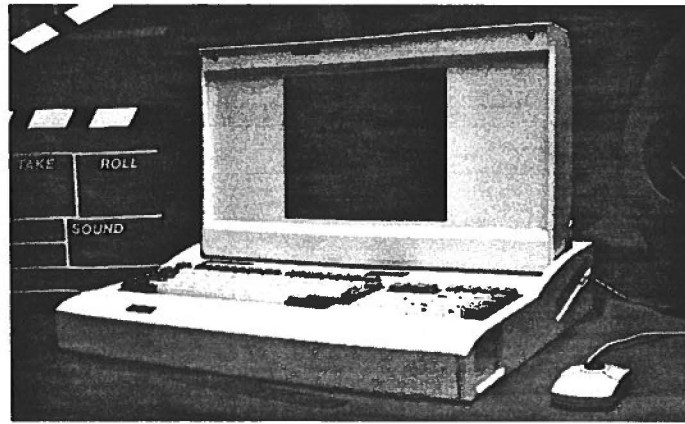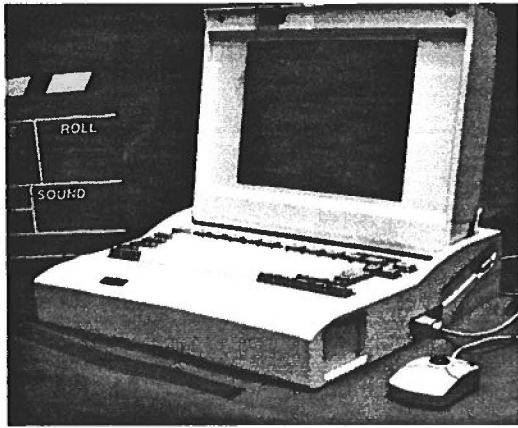**NATIONAL AMIGA**
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Silent Paw Products

PAWS 600 / 1200

The PAWS 600 and 1200 have arrived!. The power and portability of a laptop has come to the Amiga! The PAWS kit includes case, power supply (110/220V), Battery Module, Active Matrix LCD Panel and LCD Panel Driver, the PAWSTrac Microtrackball, and Link-It and CrossDOS 6 Pro software packages.

The PAWS are mainly of aluminum construction that come in the Amiga cream color or a black. The system supports all Amiga third party products. The only exception is those products which require modification of the original Amiga chassis.

Specifications :

- **Dimensions :** 14"W x 12 ¾"D x 4 ½"H (PAWS600)
  18"W x 12 ¾"D x 4 ½"H (PAWS1200)
- **Power :** Auto-switching 110/220V external Power Supply. Internal monitoring circuit for batteries warns users of low power situation and charges batteries when system is off.
- **Batteries :** Duracell DR31 Laptop Batteries (Common battery used in Compaq Line of laptops. Same as Compaq Extended Life Battery).
- **Battery Life :** Average battery life 1.25 Hours. *This figure may vary with the individual Amiga system configuration and use.*
- **Weight :** PAWS600 - 11 pounds. (Fully Loaded System)
  PAWS1200 - 14 pounds (Fully Loaded System)
- **LCD :** 640 x 480 Active Matrix Color Panel (10.4" Diagonal Measure)
- **MSRP :** $3,500 (USD)

PAWS ⁴⁰⁰⁰
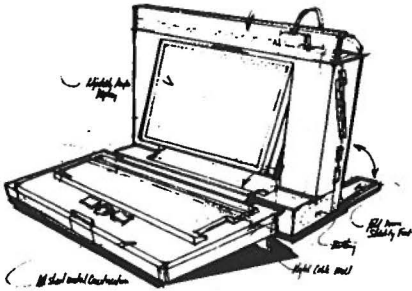
The PAWS 4000 kit allows users to transform their Amiga 4000 desktop systems into portable studios. The PAWS4000 allows the use of any internal Amiga 4000 card to include the NewTek's Video Toaster.

The PAWS 4000 comes with case, Active Matrix LCD, LCD Panel Driver, 240W Power Supply, Keyboard, Glidepoint Type Trackball, Carrying Case, and assembly instructions. The PAWS 4000 kit also includes the popular Link-It and Cross-DOS software packages. The PAWS 4000 is able to mount all Amiga third part boards and has the ability to mount two 3.5" and one 5.25" Devices.

Specifications :
- **Dimensions :**   15.7" W x 11.7" H x 7.7" D
- **Power :**   240W Internal 110/220V Power Supply.
- **Batteries :** N/A
- **Weight :**   17 pounds. (Fully Loaded System)
- **LCD :**   640 x 480 Active Matrix Color Panel (10.4" Diagonal Measure)
- **MSRP :** $3,700 (USD)
- **Available** : January / February 1996

Gecko

The Gecko is an external unit that takes the RGB output of your Amiga, at any scan rate, and allows you to utilize any standard VGA monitor. Now Amiga users can utilize the inexpensive new VGA/SVGA displays on the market. No more irritating flicker! The Gecko allows the use of most Amiga display modes to include NTSC and PAL. The Gecko package includes the main unit, power supply and interface cable.

Specifications :
- **Approximate Dimensions :**   4"W x 6"D x 2½"H
- **Power :**   Auto-switching 110/220V external Power Supply.
- **MSRP :** $400 (USD)
- **Available :** Late December 1995