AMDEK

AMDEK® LASERDRIVE-1™

Announcing a CD ROM ultra-high storage drive for personal computers — LASERDRIVE-1 — from Amdek. The new LASERDRIVE-1 delivers as much storage capacity to personal computers as 1500 standard diskettes . . . the equivalent of some 250,000 pages of text . . . more than enough capacity to hold all the street addresses or telephone listings for the U.S.

CD ROM is a "read-only" memory accessed by solid-state laser. Its technology is based on Compact Audio Discs (CDs), now sweeping consumer markets, with new high fidelity "digitized" sound. Amdek's LASERDRIVE-1 can, in fact, access text, graphics, or sound — opening the door not only to massive storage, but multi-media applications.

To go with LASERDRIVE-1: Amdek offers Microsoft® Bookshelf — the most advanced CD ROM software package yet created. Bookshelf contains a complete reference library including: the American Heritage Dictionary, Roget's Thesaurus II:, The World Almanac and Book of Facts, Bartlett's Familiar Quotations — and other standard reference works.

The combination of CD ROM software and hardware in a single product makes this a good investment now — an even more valuable investment in the future as new CD ROM discs come into the market. Current high-storage, high-accessibility CD ROM data bases exist in advertising, chemistry, engineering, environmental sciences, finance, law, space/defense and other industries. More than 130 applications have been introduced; many more are under development.

LASERDRIVE-1 fits easily on top of a CPU. It runs under MS-DOS® EXTENSIONS that allow the computer to read CD ROMs, as if they were diskettes or hard disks. The new drive has a 1.2 millisecond seek time between tracks and a transfer rate of 153KB a second. Four LASERDRIVE-1's can be used together for a combined storage capacity of 2,000,000,000 bytes.

Operation is simple. Once connected — which requires installing a cable and a card — LASERDRIVE-1 is front loaded through a motor operated door, and operated using the computer keyboard.

CD-ROM's are just under five inches in diameter . . . made of lightweight injection molded plastic . . . up to 550 megabytes of information is embedded under the surface for permanency.

AMDEK® LASERDRIVE-1™ Specifications

PERFORMANCE
- Physical disc compatibility — 12 cm.
- Disc revolution speed — 200 to 535 RPM
- Format method — CLV (Constant linear velocity)
- Read capacity — 552 megabytes
- Transfer rate — 153KB/second
- Seek time — 1.2 msec. (track to track)
- Access time — .7 sec.
- Average latency — 70 msec. (inner), 150 msec. (outer)
- Soft read error — (REC.) Less than 10 to the minus 9
- Hard read error (NON REC.) — Less than 10 to the minus 12
- Acoustic noise — Less than 50dB at 1 meter
- MTBF — 10,000 hours

DIMENSIONS
- Width — 370mm / 14-9/16"
- Depth — 320mm / 13"
- Height — 76mm / 3"

OPERATING CONDITIONS
- Temperature — 5 to 35 C.
- Humidity — 20 to 80%
- Vibration — .1 G / 5-500 Hz each direction
- Impact — 2G

AUDIO PERFORMANCE
- Number of channels — 2
- Frequency response — 20-20,000 Hz
- Dynamic range — 81dB
- Signal-to-noise ratio — 81dB
- Distortion — 0.1%
- Separation — 60dB
- Output levels — line out: 0.8Vrms / Headphone out: .55Vrms
- Output jacks — Line out: RCA type / Headphone out: @3.5 mm jack

POWER REQUIREMENTS
- Voltage — AC 108 to 132V
- Current — 0.2A
- Frequency — 60 Hz

INTERFACE
- Type — IBM® PC, XT™, AT® /Bus
- Cable — 37-37 pin / Length 80cm (31.5")

PIN ASSIGNMENTS

PIN No.	SIGNAL	DIRECTION
1	DB 0	I/O
2	DB 1	I/O
3	DB 2	I/O
4	DB 3	I/O
5	DB 4	I/O
6	DB 5	I/O
7	DB 6	I/O
8	DB 7	I/O
9	DACK	I
10	DREQ	O
11	B-BSY	O
12	ACK	O
13	DS-0	I
14	CMD	I
15	DS-2	I
16	D-END	I
17	RES	I
18	DS-3	I
19	DS-1	I
20 THRU 37	GND	—

Authorized Dealer

PACKAGING

The Amdek LASERDRIVE-1 is packaged with the following:
- Interface Card
- Cable
- Amdek Search and Retrieval Software
- Audio Playback Software (MS-DOS or Microsoft Windows®)
- MS-DOS CD ROM Extensions
- Hardware Installation Guide and User's Manual
- Audio Playback Software User's Manual
- MS-DOS CD ROM Extensions Installation Manual

MS-DOS EXTENSIONS

Description: Licensed from Microsoft, Amdek supplies MS-DOS CD ROM Extensions with every drive. The extensions allow industry standard compatible computers to read CD ROMs like standard diskettes or hard disks. They remove the 32MB access limit and allow the access of over 570MB of data. Also, they make the LASERDRIVE-1 "look like" any other storage peripheral, operating in a write protected mode.

FEATURES:
- Compatible with MS-DOS 3.1, 3.2, and 3.3
- Access LASERDRIVE-1 Standard as floppy or hard disk
- Overcomes 32 megabytes file size limitation under MS-DOS
- Allows user to use standard DOS commands
- Aids publishers in developing applications under DOS
- Provides seemless interface to High Sierra Format and DOS

PACKAGING CONTAINS:
- User Manual/Installation Guide
- Standard 5½" Diskette

AUDIO PLAYBACK SOFTWARE

Description:

Audio playback software is a fully featured program in two versions (DOS, Windows) that allows the computer to utilize LASERDRIVE-1 like a highly featured Compact Disc Audio Player.

FEATURES:
- Play, pause/unpause, stop, reset to track 1
- Skip to next track, skip to previous track
- Enter track number for direct access
- Fast forward/reverse at two speeds
- Show track number, index number, track time, time remaining
- Display disk table of contents (Windows only)
- Create programmed sequence
- Repeat one, repeat all, repeat programmed sequence
- Start track/minute/second, play to track/minute/second
- A - B Repeat loop
- Random play of tracks
- Auto pause at end of track
- Geographical display of disc playback status (Windows only)
- ICON display of track number, time (Windows only)
- Terminate and stay resident mode, 8K (DOS version)
- MS-DOS 3.1, 3.2, and 3.3 compatible
- Compatible with MS-DOS CD ROM Extensions

OPERATES UNDER:
- MS-DOS
- Microsoft Windows

PACKAGING CONTAINS:
- Instructions
- Standard 5½" Diskette

MICROSOFT BOOKSHELF

Description: Contains 10 of the most widely known and used reference books in the world — stored optically on a single 5" CD ROM. These reference works can be integrated and used within word processing.

Bookshelf is menu driven . . . multiple indexed . . . so that its information is easily findable with a few keystrokes or with a mouse.

CONTENT INCLUDES:
- *American Heritage Dictionary*
- *Roget's II: Thesaurus*
- *The 1987 World Almanac & Book of Facts*
- *Bartlett's Familiar Quotations*
- *The Chicago Manual of Style*
- *Houghton Mifflin Spelling Verifier & Corrector*
- *Forms and Letters*
- *U.S. Zip Code Directory*
- *Houghton Mifflin Usage Alert*
- *Business Information Sources*

WORD PROCESSORS SUPPORTED:
- Microsoft Word
- Bank Street Writer
- Displaywrite
- Multimate
- PC Write
- Perfect Writer
- pfs: Write
- Superwriter
- Volkswriter
- Wordperfect
- Wordstar
- XYWrite

SYSTEM REQUIREMENTS:
- Recommend 640K and hard disk
- Will work on a 256K and floppy machine in "Stand-Alone Mode"

PACKAGING CONTAINS:
- CD ROM
- User's Guide

AMDEK

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