

TEXT,C,55

PANASONIC LF-3000E OPTICAL DISK DRIVE

The Panasonic LF-3000E is one of the first of a new generation of highly compact 3.5 inch rewritable Magneto Optical Disk Drives, which are expected to rapidly become a standard feature of high end personal computers.

Rewritable/ROM

In addition to ordinary read-write disks, this optical disk drive can use ROM disks and partial ROM disk which have a read only part and a recordable part on the same disk surface.

ISO/ANSI Standard Compatible

The drive and media comply with the ISO and ANSI standards, which will ensure compatibility with other media and drive manufacturers.

High Capacity

The drive uses 512 byte sector media with a capacity of 128 Mbytes on a highly compact, removable single sided optical disk.

High Speed Seek and Data Transfer

A high speed seek time of less than 45 msec and a fast data transfer rate of 7.25 Mb/Sec (640 kbytes/sec sustained), make this one of the fastest 3.5 inch optical drives available.

Data Integrity

Non contact read-write method ensures data integrity of more than 10 years. The media has been developed by Panasonic to achieve higher reliable recording characteristics and superior C/N even after more than one million write/erase cycles.

SCSI-2 Embedded

A built-in version of the drive (the LF-3002) is available, which comes in a 3.5 inch half height form factor with embedded SCSI-2 controller. This small form factor is realized by the development of split optics, rotary bias magnets and super thin actuator in a mechanism which is only one inch high.

Cartridge Loading/Unloading

The cartridges are loaded manually and easily ejected by a motorized mechanism. An emergency eject method

exists in the event of power failure.

Applications

- Data Archiving
- Data Back-up
- CAD/DAP
- Databases
- Data/Transaction logging
- Software distribution

Characteristics LF-3000E / LF3002

Average Seek	<45 msec
Data Transfer Rate (to/from disk)	max 7.25 Mbps av. 5.55 Mbps
Data Transfer Rate	
Synchronous	4.0 Mbytes/sec
Asynchronous	1.5 Mbytes/sec
Motor start/stop time	less than 10sec/5sec
Rotation	3000 rpm
Average Latency	10 msec
Corrected Bit Error Rate	<10(-12)
Interface	SCSI-2
Media Loading	Manual load/ Auto unload
Load/Unload time	-
Media clamping	magnetic type

Conditions

Operating

Temperature	5-45°C
Humidity	10-80% rh
Vibration	2.5 m/sec(2)
Shock	5.0 m/sec(2)

Non-operating

Temperature	-10-55°C
Humidity	8-90% rh
Vibration	10 m/sec(2)
Shock	400 m/sec(2)

MTBF	30,000 hours
Power Supply	100-240VAC +5v+5% +12v+5%

Power Consumption

AC	20 W (stand by)
5V	av 0.6A max 1.1A
12V	av 0.7A max 1.5A

