

Features and Benefits

T8

Leading-Edge Data Storage Optical Drive capable of meeting the demands of tomorrow's storage applications.

Capacity

23.3 GB on a one sided disc, the highest capacity and highest performance optical drive available today

Blue Laser Technology

Fast Transfers, robust, high quality, high reliability

Dust Proof Design

Completely airtight. A dual-shutter mechanism blocks dust penetration even with media inside the drive.

High-Capacity Cache

A 16MB cache, much larger than the 2MB cache of DVD drives or the 8MB cache of MO drives.

Improve Performance

The 16 MB cache reduces the load on the CPU when writing to media and improves performance when accessing data with the aid of the read ahead feature.

Cost Effective

Similar to CD/DVD media, the drive uses the low cost 120 mm diameter discs which are good for high volume media production.



The MaxOptix T8 drive is a new generation optical drive based on Blue-Violet Laser and disc technologies. The T8 is the obvious choice for storing medical images, document imaging records and official documents. Compared to MO and DVD devices, T8 offers a quantum leap in performance which translates into new potential higher performance.

Blue laser enables high-density recording

By reducing the wavelength of laser light, from red to violet, it is possible to make a narrower "beam spot", enabling higher recording densities. It offers up to 2.6 times that of the red laser technology used for conventional Magneto-optical drives. Moreover, the powerful objective lens used for focusing the laser beam is greater than that used for recording DVDs. The resulting narrow beam doubles the recording density, making it possible to record as much as 23GB on one side of a disc.

Specifications

Drive

Model name	T8	TMT8
Drive type	Internal	External
Drive Interface	Ultra 160 LVD/SE SCSI	Ultra 160 LVD/SE SCSI
SCSI Connector	1-68 Pin HD	2-68 Pin HD
Capacity (online)	23.3 GB	23.3 GB
Sustain read	11MB/s	11MB/s
Sustain write	9 MB/s	9 MB/s
Burst rate (sync. max)	160MB/s	160MB/s
Seek time (ave)	110ms	110ms
Load/eject time	6.0sec/3.5sec	6.0sec/3.5sec
Buffer memory	16MB	16MB
MSBF	300,000 times	300,000 times
MTBF	100,000 hrs.	100,000 hrs.
Dimension (w x h x d)	146 x 41.3 x 203 mm	200 x 64 x 251 mm (w/o bezel)
Weight	1.2kg	5 kg
Power supply (AC)	5Vdc +/- 5%, 12Vdc +/- 5%	100-240V, 50/60 Hz
Power consumption (ave)	17.3 W	30 W
Operating temp	5 to 45 C°	5 to 45 C°
Operating Humidity	10 to 90%	10 to 90% (non-condensing)
Storage temp	-30 to 60 C°	-30 to 60 C°
Storage humidity	5 to 90%	5 to 90% (non-condensing)
Mount position	Horizontal / Vertical	Horizontal / Vertical
Tilt	-/+ 10%	-/+ 10%

Media

Model name	MBT23RW	MBT23CW
Format	Rewritable	Write-once
Sector size	2048 Bytes (default)	2048 Bytes (default)
Recording layer	Phase Change	Phase Change
Track pitch	0.32 um	0.32 um
Cover layer thickness	0.1 mm	0.1 mm
Disc diameter	120 mm	120 mm
Cartridge dimension	28.6 x 130.6 x 9.1mm	28.6 x 130.6 x 9.1 mm
Erase/write cycles	>10,000 times	>10,000 times
Weight	90 g	90 g
Estimated shelf life	> 50 yrs.	> 50 yrs.
Estimated archival life	> 50 yrs.	> 50 yrs.

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