

5.25-INCH MAGNETO OPTICAL DISKS

Rewritable or write-once, Sony's 5.25-inch Magneto Optical Disks are exactly what you'd expect from one of the world's leading manufacturers of Optical Drives. And now, Sony 4x capacity disks increase storage to 2.6GB !

- 1x capacity up to 650MB
- 2x capacity up to 1.3GB
- 4x capacity up to 2.6GB
- Available in 512 and 1024 bytes/sector
- Available in Rewritable and Write-once media (CCW format)
- More than 200,000 load/unload cycles
- Greater than 50 years of archival life



5.25-INCH MAGNETO OPTICAL DISKS

Product Characteristics

- **Perfect for high-capacity storage:** Network backup, near-line storage, graphic design, desktop publishing, multimedia, digital audio/video and data archiving.
- **1x capacity disks : up to 650MB.**
- **2x capacity disks : up to 1.3GB.**
- **4x capacity disks : up to 2.6GB.**
- **Available in both Rewritable (EDM Series) or Write-once (CWO Series) configurations,** which can be used interchangeably on the latest drives.
- **Write-once versions ideal** for applications that require non-erasable, secure storage or audit trails.
- **Compatible with drive speeds from 1800 to 3600 rpm or greater.** Meets or exceeds ISO standards.
- **M.O. technology is based on over 20 years of Sony optical recording expertise.** Sony is a leading manufacturer of optical equipment.

Reliable Features

- **Sony Certified** at sector reliability levels that exceed industry standards—for superb data integrity.
- **Advanced Sony polycarbonate substrate** for rugged durability and resistance to shock.
- **Exclusive Sony stamping process** helps improve reading accuracy.
- **Withstands over 200,000 load/unload cycles;** perfect for jukebox and autoloader applications.
- **Designed to be used over and over.** Accelerated life tested for more than one billion read cycles, more than 10 million erase/write/read cycles.
- **Over 50 years archival life** to assure that your data is there when you need it.



Specifications	EDM-600B CWO-600B	EDM-650B CWO-650B	EDM-1200B CWO-1200B	EDM-1300B CWO-1300B	EDM-2300B CWO-2300B	EDM-2600B CWO-2600B
Format						
Number of user tracks/side	18,751	18,751	21,600 physical: 37,640 logical	21,600 physical: 37,640 logical	26,010 physical: 73,080 logical	26,040 physical: 75,735 logical
Sector size (Bytes per sector)	512	1024	512	1024	512	1024
Number of sector per track	31	17	31 (logical)	17 (logical)	31 (logical)	17 (logical)
Track pitch (µm)	1,6	1,6	1,39	1,39	1,15	1,15
Direction of rotation (seen from optics side)	CCW	CCW	CCW	CCW	CCW	CCW
Mechanical Characteristics						
Outer diameter of disk (mm)	130	130	130	130	130	130
Diameter of hub (mm)	25	25	25	25	25	25
Cartridge dimensions (WDH) (mm)	135 x 153 x 11	135 x 153 x 11	135 x 153 x 11	135 x 153 x 11	135 x 153 x 11	135 x 153 x 11
Disk weight without cartridge (g)	45	45	45	45	45	45
Total weight (g)	165	165	165	165	165	165
Radial run-out	≥50µm p-p	≥50µm p-p	≥50µm p-p	≥50µm p-p	≥50µm p-p	≥50µm p-p
Axial run-out	≥300µm p-p	≥300µm p-p	≥300µm p-p	≥300µm p-p	≥300µm p-p	≥300µm p-p
Tilt	≥5 m rad	≥5 m rad	≥4.5 m rad	≥4.5 m rad	≥3.2 m rad	≥53.2 m rad
Optical Characteristics						
Substrate Thickness (mm)	1,2	1,2	1,2	1,2	1,2	1,2
Refractive index	1,57	1,57	1,57	1,57	1,57	1,57
Reflectivity at blank area	19%	19%	19%	19%	18%	18%
Read/write Characteristics						
Carrier to noise ratio	≥47 dB	≥47 dB	≥43 dB	≥43 dB	≥45 dB	≥45 dB
Raw byte error rate	≤5x10 ⁻⁵	≤5x10 ⁻⁵	≤5x10 ⁻⁵	≤5x10 ⁻⁵	≤5x10 ⁻⁵	≤5x10 ⁻⁵
Recording Capacity						
Unformatted	297 MB per side	325 MB per side	596 MB per side	654 MB per side	1,159 MB per side	1,318 MB per side
Formatted	295,4 MB per side	322,1 MB per side	595,6 MB per side	652,3 MB per side	1,149 MB per side	1,303 MB per side
Number of sides used	2 (double sided)	2 (double sided)	2 (double sided)	2 (double sided)	2 (double sided)	2 (double sided)
Reliability (Acceleration test results)						
Read Cycle	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹
Erase/read/write cycle	≥10 ⁷	≥10 ⁷	≥10 ⁷	≥10 ⁷	≥10 ⁷	≥10 ⁷
Load/unload cycle	≥10 ⁹ /side	≥10 ⁹ /side	≥10 ⁹ /side	≥10 ⁹ /side	≥10 ⁹ /side	≥10 ⁹ /side
Archival life	≥50 years	≥50 years	≥50 years	≥50 years	≥50 years	≥50 years
Shelf life	≥50 years	≥50 years	≥50 years	≥50 years	≥50 years	≥50 years
Environmental Requirements						
Operating Conditions	41-131° F (5-55° C) 10-80% RH*	41-131° F (5-55° C) 10-80% RH*	41-131° F (5-55° C) 10-85% RH*	41-131° F (5-55° C) 10-85% RH*	41-131° F (5-55° C) 10-90% RH*	41-131° F (5-55° C) 10-90% RH*
Storage Conditions	14-131° F (-10-55° C) 10-90% RH*	14-131° F (-10-55° C) 10-90% RH*	14-131° F (-10-55° C) 3-90% RH*	14-131° F (-10-55° C) 3-90% RH*	14-131° F (-10-55° C) 10-90% RH*	14-131° F (-10-55° C) 10-90% RH*

*Maximum wet bulb temperature 84°F (29°C).

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