5.25-INCH MAGNETO OPTICAL DISK

Speedy access and data transfer with up to 9.1GB capacity—Sony’s precision disk technology makes it possible.

Up to 9.1GB Storage Capacity
To achieve 9.1GB storage capacity, Sony’s 5.25 MO disk employs MSR (Magnetically induced Super Resolution) and Land & Groove Recording technologies. This enormous capacity is 14 times the 650MB of Sony’s first-generation MO disk.

Compatibility for reliable performance in diverse environments
Sony’s wide-margin media is designed to be highly tolerant of variations in laser power that may occur in different usage environments. Performance stability is further assured by Sony’s high-precision stamper and substrate molding technology.

Estimated archival stability exceeding 50 years
With data integrity maintained over at least one million erase/write cycles and a data-read life estimated at more than 50 years, Sony 5.25 MO media is highly suited to long-term data archiving.
Robust construction for auto-changer use
Sony uses its own rugged cartridge design and mechanical components to achieve durability of at least 100,000 load/unload cycles per side. Sony’s original antistatic hard coat treatment reduces static buildup and protects the disk surface from scratches and dust.

Magnetic data resolution finer than laser spot size
With MSR (Magnetically-induced Super-Resolution) technology, the recorded magnetic domain at the center of the laser spot is selectively heated to transfer its data individually to a special readout layer. This makes it possible to distinguish magnetic data that is much smaller than laser beam spot size.

Land & Groove Recording raises data density
Besides writing data in the grooves like a conventional disk, this format uses the “lands” between the grooves as well. Land & Groove Recording creates two spiral data tracks to dramatically raise data density and disk capacity.

Widely adopted for demanding applications
With its high-speed random access and massive storage capacity, the 5.25 MO lends itself to a wide variety of applications. MO drives can be easily connected to PCs and workstations including LAN and Web servers to handle computer graphics, CAD/CAM, X-ray and ultra-sound medical images, non-linear audio/video editing, and government agency or library document archiving. Other popular applications include large-scale libraries and jukeboxes that depend on high-speed disk changes.

### Specifications

#### Cartridge Dimensions (mm): 135X153X11

#### Disk Diameter (mm): 130

#### Weight (g): 165

#### Erase/Write/Read Cycles: ≥10^6

#### Read Cycles: ≥10'

#### Byte Error Rate: ≤10^-12

#### Estimated Archival Life: = 50 years

#### Environmental Requirements
- **Operation Conditions:** (°F(°C);%RH): 41–131 (5–55); 3–85
- **Storage Conditions:** (°F(°C);%RH): 14–131 (-10–55); 3–90
- **Absolute Humidity (g/m3):** 1–30

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**Model Name** | EDM-600C | EDM-650C | EDM-1200C | EDM-1300C | EDM-2300C | EDM-2600C | EDM-4-100C
---|---|---|---|---|---|---|---
**Format** | 1X | 1X | 2X | 2X | 4X | 4X | 8X
**Physical Tracks** | 18,751 | 21,600 | 26,010 | 26,040 | 37,696 | 37,735 | 130,112
**Logical Tracks** | 18,751 | 37,600 | 73,080 | 75,735 | 130,112 | 130,112 | 130,112
**Sector Size (Bytes/Sector)** | 512 | 1,024 | 512 | 1,024 | 512 | 1,024 | 512
**Track Pitch (µm)** | 1.6 | 1.39 | 1.15 | 30 | 34 | 512
**Number of Bands** | — | 16 | 30 | 34 | 38 | 512
**Unformatted (MB)** | 594 | 650 | 1,193 | 1,309 | 2,319 | 2,636 | 4,130
**Recording Capacity** | | | | | | | |

**Model Name** | EDM-4-800C | EDM-5-200C | EDM-9-100C | EDM-8-600C | EM1-9100B | EM5-9100B
---|---|---|---|---|---|---
**Format** | 8X | 8X | 14X | 14X | 14X | 14X
**Physical Tracks** | 37,485 | 38,136 | 49,728 | 49,560 | 49,728 | 49,728
**Logical Tracks** | 182,508 | 186,480 | 300,900 | 186,480 | 186,480 | 186,480
**Sector Size (Bytes/Sector)** | 1,024 | 2,048 | 4,096 | 2,048 | 1,024* | 512
**Track Pitch (µm)** | 0.85 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65
**Number of Bands** | 45 | 24 | 16 | 30 | 16 | 16
**Unformatted (MB)** | 4,836 | 5,233 | 9,165 | 8,627 | 9,165 | 9,165
**Recording Capacity** | Double Sided | Double Sided | Double Sided | Double Sided | Double Sided | Double Sided

For more information, visit our website at [sony.com/storagemedia](http://sony.com/storagemedia)

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