

## 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.



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## 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.



5.25 MO Disk

## 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.

Model Name	EDM-600C	EDM-650C	EDM-1200C CWO-1200C	EDM-1300C CWO-1300C	EDM-2300C CWO-2300C	EDM-2600C CWO-2600C	EDM-4100C CWO-4100C
Format	1X	1X	2X	2X	4X	4X	8X
Physical Tracks	18,751		21,600		26,010	26,040	37,696
Logical Tracks	18,751		37,600		73,080	75,735	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		512
Number of Bands	—		16		30	34	38
<b>Recording Capacity</b>							
Unformatted (MB)	594	650	1,193	1,309	2,319	2,636	4,130

Model Name	EDM-4800C CWO-4800C	EDM-5200C CWO-5200C	EDM-9100C CWO-9100C	EDM-8600C CWO-8600C	EM1-9100B	EM5-9100B
Format	8X	8X	14X	14X	14X	14X
Physical Tracks	37,485	38,136	49,728	49,560	49,728	
Logical Tracks	138,915	182,508	186,480	300,900	186,480	
Sector Size (Bytes/Sector)	1,024	2,048	4,096	2,048	1,024*	512
Track Pitch (µm)	0.85			0.65		
Number of Bands	45	24	16	30	16	
<b>Recording Capacity</b>						
Unformatted (MB)	4,836	5,233	9,165	8,627	9,165	
Number of Sides Used	Double Sided					

\*Software emulation based on 4096 Byte/Sector.

### Dimensions

Cartridge Dimensions (mm): 135X153X11

Disk Diameter (mm): 130

Weight (g): 165

### Reliability (Accelerated Test Results)

Erase/Write/Read Cycles: =10<sup>6</sup>

Read Cycles: =10<sup>7</sup>

Byte Error Rate: =10<sup>-12</sup>

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

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