



Professional Disc for DATA

New Format Disc utilizing the Blue-Violet Laser Massive Capacity of 23.3GB and High Transfer Rate of 11MB/s



New Era of Data Storage

Professional Disc for DATA is a new format, data storage disc based on Sony's blue-violet laser and disc technologies. While retaining all the conventional advantages of discs, such as high-speed random access and rewritable / write once models, the disc also has massive recording capacity and a high data transfer rate. Professional Disc for DATA marks the start of a new era in disc storage.

Massive Capacity / High Speed Data Transfer Rate

Professional Disc for DATA utilizes advanced disc technology such as a short wavelength, high performance lens and narrow track pitch in achieving:

¥23.3GB Massive Capacity (Single side)

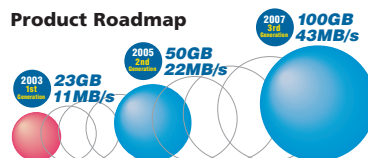
¥11MB/s (Read), 9MB/s (Write) High Data Transfer Rate

Estimated Storage Life

According to internal testing, the estimated storage life of the disc under room temperature is over 50 years. This estimated storage life is superior to other types of media.

Roadmap

Professional Disc for DATA was released in 2003, opening a new era in disc storage. Recording capacity and data transfer are set to double every two years, and achieve a capacity of 100GB and data transfer rate of 43MB/s (read) by 2007.



MODEL NAME	PDDRW23B (Rewritable)	PDDWO23B (Write Once)
FORMAT		
Recording Capacity (GB)		23.3
Data Transfer Rate (MB/s)		11 (read), 9 (write)
Sector Size (Bytes*)		2,048*
Recording Layer		Phase change
Recording Method		On groove
Track Pitch (µm)		0.32
Protective Layer Thickness (mm)		0.1
MECHANICAL CHARACTERISTICS		
Disk Diameter (mm)		120
Cartridge Dimensions (mm)		128.6 x 130.6 x 9.1
Weight (g)		90
RELIABILITY		
Erase / Write / Read Cycles (Times)		10,000**
Read Cycles (Times)		1,000,000
Byte Error Rate		2 x 10 ⁻⁴
Estimated Shelf Life (Years)		50***
Estimated Archival Life (Years)		50***
ENVIRONMENTAL REQUIREMENTS		
Operation Conditions (*F(°C);%RH)		32~131 (0~55);3~85
Storage Conditions (**F(°C);%RH)		14~131 (-10~55);3~90

* Can be changed to 512Bytes when formatting.

** Data result from Internal Testing.

*** Estimated life under 74°F(23°C) 50%RH environment by our test.

This disc is compatible with the "Professional Disc for DATA" system.
It is not compatible with "Blu-ray" system or "Professional Disc" system (XDCAM).