DAT160 DATA CARTRIDGE

Ultra-thin coating technology packs 160GB into one DAT160 cartridge.

DAT 160
Digital Data Storage

Large capacity in a tiny cartridge

DAT160 (DGDAT160) offers storage capacity of 80GB (native) and 160GB (compressed). With further improvements in the accumulated technology of ultra-thin coating technology and cartridge design, DAT160 has achieved large capacity in a small cartridge by increasing inear recording density.

Extensive product lineup

Sony is continuously supporting the DDS/DAT format with a full range of products. Since launching the first DDS1 data cartridge in 1990, Sony has continued supplying DDS/DAT cartridges to the market, offering a full lineup extending from DDS1 to DAT160.

	DDS1	DDS2	DDS3	DDS4	DAT72	DAT160	DAT 7thGen	DAT 8thGen
Media	90m Tape	120m Tape	125m Tape	150m Tape	170m Tape	155m Wide Tape	Longer Wide Tape	Longer Wide Tape
Compressed* Capacity	4 GB	8 GB	24 GB	40 GB	72 GB	160 GB	~300 GB	~600 GB
Compressed* Transfer Rate	366KB/s	≤1.4MB/s	≤3MB/s	≤2-6MB/s	≤6MB/s	≤10MB/s	≤16MB/s	≤32MB/s
*Assumes 2:1 compression	1990	1993	1996	1999	2003	2007	Approx +2years per generation	

as of October 2006

SONY®

Capacity/Capacité:
80 GB/Go Native/Natif
160 GB/Go Compressed/Compressé

DAT 160
Digital Data Storage

8mm DATA CARTRIDGE / 8mm CARTOUCHE DE DONNÉES
DGDAT160
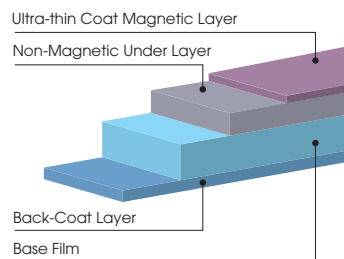
DAT160

160GB

DAT160 DATA CARTRIDGE

DDS/DAT technology

To ensure downward compatibility with DDS4 and DAT72 formats, DAT160 format is required to have higher accuracy, performance and durability. Developed for the DDS/DAT72 format, the ultra-thin dual layer coating technology featured in the DAT160 cartridge, provides superb durability, which withstands repeated write/read operations in addition to offering high output and low noise level in the high frequency band. Moreover, the cartridge design technology helps ensure downward compatibility with DDS4 and DAT72 and provides stable operation and high reliability.
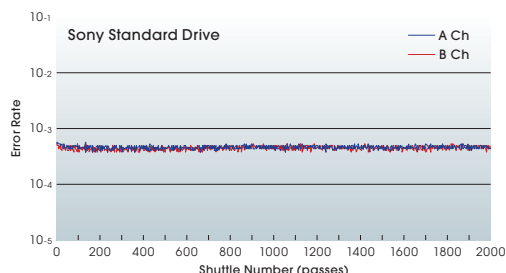
DDS/DAT for proven performance

The DDS/DAT format dominates the low-end tape market, thanks to high reliability and proven performance as well as assured downward compatibility to support legacy assets. With its robust roadmap, the DDS/DAT format is the long-term storage solution that extends well into the future.

Dual-layer ultra-thin coating technology

- Ultra-thin Coat Magnetic Layer
- Non-Magnetic Under Layer
- Back-Coat Layer
- Base Film

Durability Characteristics

DDS/DAT Series Drive/Media Compatibility

Model	Format	Drive Type					
		DAT160	DAT72	DDS-4	DDS-3	DDS-2	DDS-1
DGDAT160	DAT160	Write/Read	—	—	—	—	—
DGDAT72	DAT72	Write/Read	Write/Read	—	—	—	—
DGD150P	DDS-4	Write/Read	Write/Read	Write/Read	—	—	—
DGD125P	DDS-3	—	Write/Read	Write/Read	Write/Read	—	—
DGD120P	DDS-2	—	—	Write/Read	Write/Read	Write/Read	—
DG90P	DDS-1	—	—	Write/Read*	Write/Read	Write/Read	Write/Read
DG60P	DDS-1	—	—	Write/Read*	Write/Read	Write/Read	Write/Read

*Compatibility depends on the drive's specifications. Sony's DDS-4 drive is read-write compatible.

Mechanical Characteristics	DGDAT160		
Format	DAT160	Coercive Force (kA/m)	190
Linear Recording Density (kbpi)	174	Tape Width (mm)	8.0
Recording Capacity (*Compressed)	80GB (*160GB)	Tape Thickness (µm)	5.6
Maximum Data Transfer Rate (*Compressed)	6.9MB/s (*13.8MB/s)	Tape Length (m)	154

*Compression ratio 2:1

Dimensions

Cartridge Dimensions (mm): 73.0 x 54.0 x14.7

Weight (g) : 54 (with case)

Environmental Requirements

Operation Conditions (°F(°C);%RH) : 41~113 (5~45);10~80*

Storage Conditions (°F(°C);%RH) : 41~89.6 (5~32); 20~60*

Transportation Conditions (°F(°C);%RH) : -40~113 (-40~45); 5~80*

*Maximum wet bulb temperature : 79°F(26°C) at no condensation.

For more information, visit our website at **sony.com/storagemedia**