SONY
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DAT320 Data Cartridge

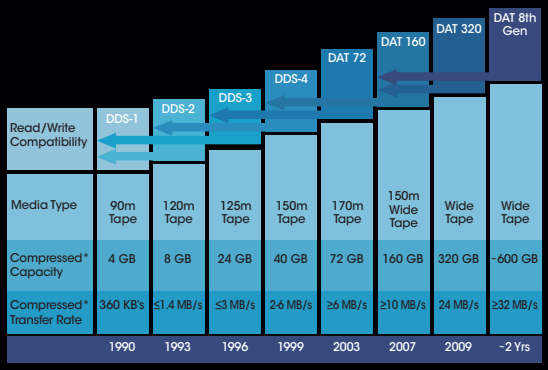
DAT320 Data Cartridge Offers Greater Reliability Derived from Sony's Metal Evaporation Technology

Large Capacity in a Tiny Cartridge

Sony's DAT320 (DGDAT320) cartridge offers the storage capacity of 160GB (native) and 320GB (compressed). Thanks to Sony's technological experience as a Metal Evaporated media expert for over 20 years, DAT320 provides greater recording density in a small cartridge by adopting our ME and helical scan technologies already proven reliable in our AIT format.

DAT Format, De-Facto Standard for Small-to-Midsize Storage

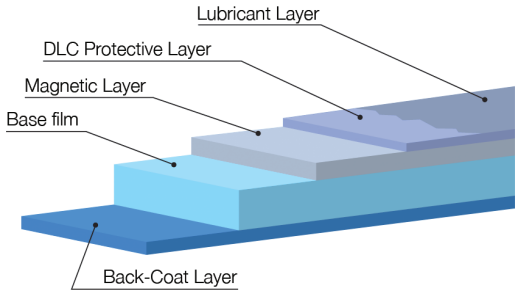
With entry-level storage capacities and high reliability, the DDS/DAT format has the largest installed base of any tape technology and is the de-facto standard for small and medium sized businesses. The DAT320 generation offers greater capacity and faster transfer speed but maintains its small size providing space, cost and energy saving benefits.

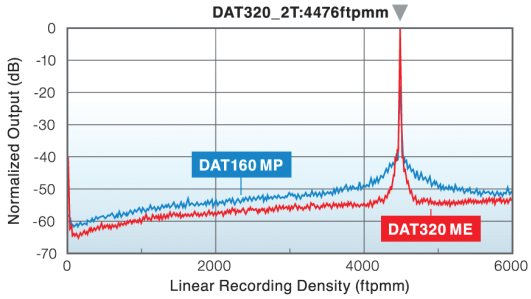


DAT320 Data Cartridge

Sony's Metal Evaporation Technology

Sony's metal evaporation technology, derived from the development of the AIT format, delivers a newly developed super-fine magnetic layer that is optimized for DAT320. This enables the tape to have higher coercivity and greater magnetic flux density, resulting in high output and low noise level. The DLC (Diamond Like Carbon) protective layer deposited on the magnetic layer ensures a strong abrasion resistance, providing a higher durability. The application of a lubricant layer provides lower friction which reduces head wear. Again, Sony's expertise in metal evaporation technologies has led to the development of this highly reliable next generation.





Cartridge with High Performance

Sony's low torque cartridge technology helps minimize the torque effect during winding. Using our experience as a DDS/DAT cartridge manufacturer, Sony has newly designed the hub and shell as well as upper sheet and lower sheet specially for this tape width to help improve cartridge strength and ensure smooth tape running.

DAT320 Cleaning Cartridge

Sony's cleaning cartridge, exclusively developed for the DAT320 format, offers ideal cleaning effects, minimizing head wear and maintaining the head condition in an optimum state.

Drive/Media Compatibility

Model	Format	Drive Type				
		DAT320	DAT160	DAT72	DDS4	DDS3
DGDAT320	**DAT320**	Write/Read	—	—	—	—
DGDAT160	**DAT160**	Write/Read	Write/Read	—	—	—
DGDAT72	**DAT72**	—	Write/Read	Write/Read	—	—
DGD150P	**DDS4**	—	Write/Read	Write/Read	Write/Read	—
DGD125P	**DDS3**	—	—	Write/Read	Write/Read	Write/Read

Mechanical Characteristics	DGDAT320		
Format	DAT320	Tape Width (mm)	8.0
Linear Recording Density (ftpmm/kbpi)	8952/202	Tape Thickness (um)	5.9
Recording Capacity (Compressed*)	160 GB (320 GB)	Tape Length (m)	153
Maximum Data Transfer Rate (Compressed*)	12 MB/s (24 MB/s)		

*Compression ratio 2:1
The actual capacity, compression ratio and data transfer rate may vary depending on equipment, software usage, environments and data.
1GB=10 billion bytes

Dimensions and Weight

Cartridge Dimensions (mm): 73.0 x 14.7
Weight (g): 53 (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; No condensation at 79°F(26°C).

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

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