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# SONY

## SDLT Super Digital Linear Tape



Ideal for data-intensive back-up and multimedia applications.

## The next DLT generation for ultimate performance.

Sony Super DLT media offers massive storage capacity of up to 320GB compressed, cutting edge performance with a tape leader mechanism and bullet-proof reliability even after one million passes. This next generation DLT technology is an ideal efficient data storage in small and medium sized business organisations.



### Key features and benefits

#### ➤ **More Capacity, More Speed**

Using the SDLT320 drive, a single Super DLT cartridge can store an amazing **160GB native or 320GB compressed** of data at a fast rate of **up to 32MB/s compressed**.

#### ➤ **Reliable, Durable and Incredibly Stable**

Featuring latest digital tape technology, SDLT media can **perform one million passes** and **store precious data safely and securely for over 30 years\***. A new cartridge design improves resistance to repeated loading and unloading and enhances stability of the tape inside the SDLT drives. **Lifetime Guaranteed\*\***.

#### ➤ **Superior Tracking Density**

Sony breaks new ground with the advanced **Optical Servo System**, designed and developed for high tracking density and exceptional tracking accuracy.

#### ➤ **Sharply reduced error rate**

SDLT uses ultra smooth and thin tape technology. Smoothing the tape is essential to achieve a high-capacity magnetic tape while a thin magnetic layer minimizes error rates at high-density recording.

#### ➤ **Customised pre-labelled service**

Want to easily identify your media in automated systems and access your files quicker? Sony offers a labelling service for SDLT tape – perfect for saving time, enhancing the efficiency of your back-ups and making data even more secure!

#### ➤ **Migration path to the future**

While maintaining compatibility with previous-generation DLT products, the SuperDLT tape format offers continuing improvements in recording capacity. This migration path means a long-term storage platform that can be used with confidence.

\* Depending on storage conditions.

\*\* Terms and conditions apply.



## Drive / Media Compatibility

Media Model	Drive Model				
	DLT2000	DLT2000XT	DLT4000	DLT7000	DLT8000 (DLT1)
Super DLT I	Rejected	Rejected	Rejected	Rejected	Rejected
DLT Tape VS1	Rejected	Rejected	Rejected	Rejected	Rejected
DLT Tape IV (Compressed*)	Rejected	Rejected	Read/Write 20GB (40GB*)	Read/Write 35GB (70GB*)	Read/Write 40GB (80GB*)

Media Model	Drive Model				
	DLT VS80	DLT VS160	SDLT220	SDLT320	SDLT600
Super DLT I (Compressed*)	Rejected	Rejected	Read/Write 110GB (220GB*)	Read/Write 160GB (320GB)	Read
DLT Tape VS1 (Compressed*)	Rejected	Read/Write 80GB (160GB*)	Rejected	Rejected	Read
DLT Tape IV (Compressed*)	Read/Write 40GB (80GB*)	Read	Read	Read	Rejected

\* Compression ratio 2:1

## Specifications

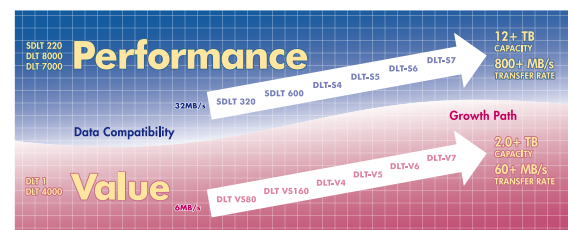
General Characteristics	SDLT1-320
<b>Format</b>	<b>SDLT</b>
Storage Capacity	320GB (160GB) with SDLT320 drive
Compressed* (Native)	220GB (110GB) with SDLT220 drive
Transfer Rates	32MB/s (16GB) with SDLT320 drive
Compressed (Native)*	22MB/s (11GB) with SDLT220 drive
Linear Recording Density (kbp)	193 with SDLT320 drive 133 with SDLT220 drive
Tape Type	Metal Particle (MP)
<b>Magnetic Characteristics</b>	
Coercive Force (kA/m)	151
<b>Physical Characteristics</b>	
Track Thickness (µm)	9
Track Width (mm)	12.65
Tape Length (m)	564
<b>Environmental Requirements</b>	
Operating Conditions (°f (°c); %rh**)	50~104 (10~40); 20~80
Storage Conditions (°f (°c); %rh**)	60~90 (16~32); 20~80*
<b>Tape Dimensions (nominal)</b>	
External Dimensions (mm)	105.8x105.4x25.4
Weight (g)	275 (with case)

DLT Tape is a registered trademark of Quantum Corporation.

\* Compression ratio 2:1

\*\* Maximum wet bulb temperature: No condensation 26°C (79°F).

## SDLT Roadmap



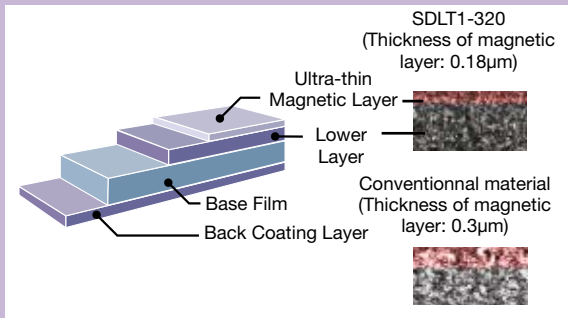
Source: Quantum Corporation

## Logistics

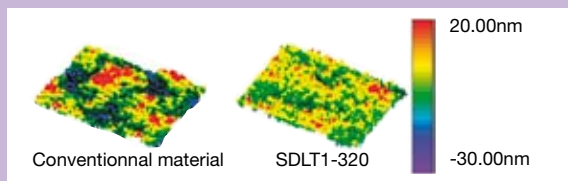
<b>Sub carton</b>	<b>SDLT1-320</b>
External Dimensions (mm)	128x150x408
Weight (kg)	3.6
Quantity	10
<b>Master carton</b>	<b>SDLT1-320</b>
External Dimensions (mm)	280x192x419
Weight (kg)	7.9
Quantity	20

## Thin-layer Coating and Smoothing Technologies

Ultra-thin magnetic film technology made it possible to form magnetic coatings composed of uniform, submicron particles for high signal output and stability in high-density recording.



To achieve high recording density, the Super DLT format uses a Magneto Resistive Cluster (MRC) head. MRC is a highly sensitive playback head that detects minute projections on the tape surface as noise. For Super DLT, we developed a tape with a particularly smooth surface.

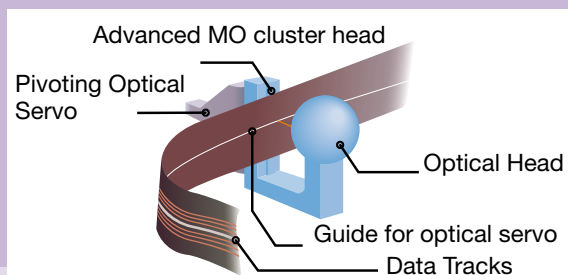


## Pivoting Optical Servo (POS)

As compared to DLT IV, Super DLT has higher track density, making accurate tracking a critical factor for high-density recording. POS enables a high-capacity cartridge without wasting recording area for servo signals. The optical head traces existing grooves on the backside of the tape, with the head position adjusted on the track in sync with data fed back to the optical head. POS uses a noncontact optical head that avoids damage to the tape surface.

### PRML: Partial Response Maximum Likelihood

Unlike DLT IV, Super DLT uses PRML signal processing for recording/playback. PRML improves data reliability and helps increase recording density.



## SDLT Cleaning Tape

Keeping drive heads clean is essential if you want to maintain performance. The Sony SDLT-CL Cleaning Tape is designed exclusively for use with SDLT\* drives. The tape provides around 20 cleanings and should be used regularly or when the Use Cleaning Tape lamp on the drive is illuminated or when a cleaning message appears during use of backup software.

\*SDLT200, SDLT320

## About Sony storage media

*Sony has spent more than 50 years driving innovation, and this pioneering spirit has led us to develop many popular storage standards. Today, Sony manufactures media for many different formats – including AIT and half-inch tape formats such as S-AIT, LTO and DLT and optical discs like MO, DVD, CD – all to the same demanding standards, for absolute performance and reliability. Businesses and consumers get the widest choice of storage solutions from a single supplier. And with the backing of Sony technical support and time-saving services like pre-labelling, the answer is clear: whether you need archival, backup or file transfer, trust Sony with your data.*