



SDLT

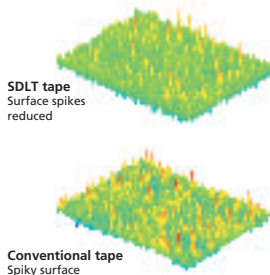
Super DLT Platform lineup with new technical features
160GB (Native), 320GB (Compressed)



Ultra-smooth tape surface and thin magnetic-layer tape technology

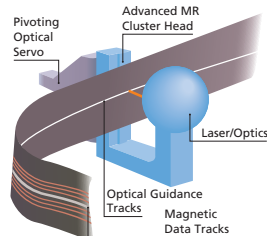
The SDLT platform achieves tremendous storage capacity by using MRC Magneto Resistive Cluster heads for high data density recording. However, this new head technology is so sensitive that it increases noise from the media along with output. To solve this problem, Sony has greatly reduced the spikes on the tape surface so the tape can run without generating surface noise.

Magnified tape surface



POS: Pivoting Optical Servo for higher track density

To assure accurate tracking of its increased data tracks, the SDLT format uses a tracking servo, unlike the lower-density DLT. This innovative POS (Pivoting Optical Servo) tracking system precisely handles the high track density of SDLT by reading permanent optical guidance tracks etched on the back of the tape. Based on the positioning data read from these tracks, the servo adjusts the MRC head position for correct alignment with the target data tracks on the magnetic side of the media. Of course, the non-contact laser optics do not damage the tape.



DLT Tape is a registered trademark of Quantum Corporation

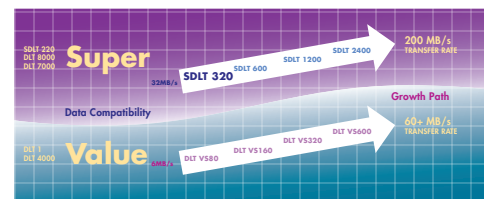
PRML: Partial Response Maximum Likelihood

In addition to the recording technology of the DLT4 format, SDLT adopts a more sophisticated data channel, PRML. PRML enhances reliability of data read from the tape and also helps achieve high-density recording.

SDLT Migration Path

Super DLTape™ drives offer full backward read compatibility with the current DLT format, DLT4000/7000/8000, and DLT1. In the future, SDLT will migrate to higher capacities and data transfer rates on the format roadmap.

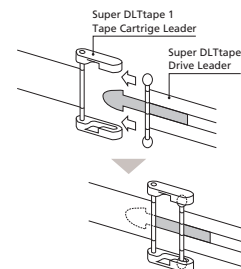
Roadmap



Source: Quantum Corporation

Positive Engagement Tape Leader Buckling Mechanism

The Super DLTape™ cartridge adopts a new buckling system design at the end of tape, which enhances reliability under heavy usage cycles, such as with automated equipment. Plastic materials used in this mechanism are highly robust to resist wear despite repeated loading and unloading.



MODEL NAME	SDLT220 Drive	SDLT320 Drive
Drive of Use	SDLT220 Drive	SDLT320 Drive
GENERAL CHARACTERISTICS		
Recording Capacity (Compressed*)	110GB (220GB*)	160GB (320GB*)
Data Transfer Speed (Compressed*)	11MB/s (22MB/s*)	16MB/s (32MB/s*)
Track Pitch		448
Recording Density (kftpm)	5.5 (133kbp/135kftpi)	7.9 (193kbp/196kftpi)
PHYSICAL CHARACTERISTICS		
Tape Width (mm)		12.65
Tape Thickness (µm)		9.0
Tape Length (m)		564
ENVIRONMENTAL REQUIREMENTS		
Operation Conditions (°F(°C);%RH)	50-104 (10-40);20-80**	
Storage Conditions (°F(°C);%RH)	60-90 (16-32);20-80**	
Transportation Conditions (°F(°C);%RH)	41-90 (5-32);5-80(Recorded)**	
Transportation Conditions (°F(°C);%RH)	-9-118 (-23-48);5-80(Unrecorded)**	
DIMENSIONS		
External Dimensions (mm)	105.4x105.8x25.4	
Weight (g)	275 (cartridge only)	

* Compression ratio 2:1.

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