



Tandberg  
**440LTO**

## The next generation LTO provides premium capacity

### Compatibility with first generation LTO technology

The Tandberg Storage Solution 440LTO can also help improve performance when used with first-generation Ultrium media however, using Ultrium 2 media can require fewer tapes to help lower cost of ownership. Coexistence with first-generation Ultrium tape technology is designed to allow for upgrades, helping to protect customers' investments in drives, media and tape automation platforms.

### Flexible attachment

The Ultra-160 SCSI attachment is designed to allow standalone servers to exploit the tape drive when natively attached.

### Low total cost of ownership

Exploiting the performance and capacity of the Tandberg 440LTO can help reduce the number of tape cartridges, tape drives and tape libraries required in a storage environment, allowing Existing customers to expand their current installation and new customers to install a cost-effective solution.

### Second-generation enhancements

The Tandberg Storage Solution 440LTO features several technology enhancements designed to help optimize data throughput, increase cartridge-

**Digital speed matching (DSM)** is designed to allow the drive to adjust native data rate to closely match the host data rate. This feature, along with an increased buffer, can help improve throughput in an environment where the host data rate is less than optimal.

A **64 MB buffer** works in combination with DSM to help mask the impact of data rate fluctuations by helping reduce backhitch operations to allow the tape drive to perform at its optimal speed.

### Complete backup package

The Tandberg Storage Solution 440LTO contains the appropriate data and cleaning cartridge and Tandberg accredited, adequate backup software.

\*2:1 compression



### Special functions

- Up to 400 GB\* capacity with 252 GB\*/h transfer rate
- Ultra-160 SCSI LVD interface
- Backward read/write compatibility with LTO 1
- Digital Speed Matching (DSM)
- Enhanced servo positioning
- 3 years warranty



To help meet the twin challenges of today's enterprise environment - rapid data growth and shrinking backup windows - TANDBERG DATA has introduced the second-generation LTO Tape Drive. Using advanced technologies, this tape drive offers more than twice the data transfer rates of the preceding generation and doubles the cartridge capacity when used with Ultrium2 media.

Tape Drive		LTO Ultrium 2
Capacity	Native/Compressed	200 GB / 400 GB *
Sustained data transfer rate		Up to 70 MB/s* / 35 MB/s native
Aggregate sustained data rated		Up to 252 GB/h*
Interface		Ultra-160 SCSI LVD
Number of tracks		512
Data cartridge		LTO Ultrium 2
Backward compatibility		Read/write compatible with Ultrium 1
Data compression		SLDC (LTO data compression per ECMA-321)2
Rewind speed		Up to 8 m/s
Operating speed?		Up to 6,22 m/s
Data rate		Digital speed matching (DSM) from 17.5 MB/s to 35 MB/s
Maimum locate speed		Up to 8 m/s
Average file access		49 s
Average load to BOT		15 s
Average unload from BOT		15 s
Average rewind time		49 s (average Ultrium 2 cartridge)
Reliability		
MTBF (h)		250,000 W 100s duty cycle
Error rate (calculated)		1 x 10 <sup>17</sup> bytes per permanent read error
Error rate (validated)		1 x 10 <sup>14</sup> bytes per permanent read error
Error rate (validated)		1 x 10 <sup>13</sup> bytes per permanent write error
Physical characteristics		
Dimensions (internal drive)		8.5 cm x 14.9 cm x 21.1cm (3.33" H x 5.83" W x 8.33" D)
Weight		3.0 kg (6.6 lb.)
Dimensions (external drive)		14,6cm x 17,1cm x 33,3cm (5,75" H x 6,74" W x 13,11" D)
Weight		6,6kg (14,3 lb.)
Operating environment		
Operating temperature		10° to 40° (50° to 104° F)
Relative humidity		20% to 80% (non-condensing)
Electrical power		5 V at 3.1 A, 12 V at 1.1 A (steady state) 5 V at 3.7 A, 12 V at 1.1 A (steady state)
Power dissipation:		13 W (idle-cartridge), 29 W (read/write), 9 W (sleep-no cartridge) 16 W (idle-cartridge), 32 W (read/write), 12 W (sleep-no cartridge)



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