

# SONY

## Sony LTO7 Storage Media

Higher capacity and performance  
to support growing archival needs.



ULTRIUM  
LTO

## Key benefits

- Capacity: 6TB native, 15TB\* compressed
- Transfer rate: 300MB/s native, 750MB/s\* compressed
- Coating technology: Sony's newly developed original technology which passed LTO7 Technology Provider Companies (TPCs) qualification
- Non-contact IC Memory of 16KB to feature high-speed data search and improved data management in libraries
- Partitioning enabling capabilities that can help enhance file control and space management
- The ideal solution for Radio Frequency Identification (RFID) labels
- First class Sony services : Labelling, European technical Centre, Tape media health analysis
- Lifetime Guarantee\*\*

\*Compression ratio 2.5 : 1

\*\*Media estimated lifetime to be advised by Sony. This guarantee applies on products purchased as of 2005 in EEA countries, Russia and Turkey. For complete Lifetime Guarantee conditions please refer to [www.pro.sony.eu/storage-media](http://www.pro.sony.eu/storage-media), Storage Media services section.



### LTO7 specifications

Recording capacity (*compressed)	6TB (15TB)
Maximum Data Transfer Rate (*compressed)	300MB/s (750MB/s)
Number of Data Tracks	3584
Cartridge Memory	16,352 kbytes
Cartridge dimension (HxWxD) (mm)	102x105.4x21.5
Cartridge weight (g)	205
Tape Width (mm)	12.65
Tape Thickness (µm)	5.6
Tape Length (m)	960
Archival life	30 years

### Environmental requirements

Operation conditions	temperature (°C)	10~45
	humidity (%RH)	10~80
Storage conditions (short term)	temperature (°C)	16~35
	humidity (%RH)	20~80
Storage conditions (archive)	temperature (°C)	16~25
	humidity (%RH)	20~50

## Sony LTO7 Storage Media

### Ideal for archiving at data centres

Thanks to its low media cost per TB, LTO7 is economically the perfect solution to store large amounts of archival data in the long term. With its high capacity, the cartridge is designed to retain its archival quality for up to 30 years supported by Sony's proven technology in magnetic tape production industry.

### Enhanced coating technology for higher recording density

Enhanced coating technology features smoother film tape surface and enables narrower tracks (LTO7 @ 3584 tracks vs 2176 tracks for LTO6) to be written and read accurately, resulting in higher recording density (LTO7 @ 485kbits/inch vs 385kbits/inch for LTO6).

### Improved reel structure to enhance tape to head interface

Reel design was enhanced to realise the same level of stability at high speed tape running as for LTO6.

### Tape design for high durability and high reliability

Sony's technology expertise and extensive history in developing media and professional tape formats contribute to high durability and high reliability of LTO7 media.

### LTFS (Linear Tape File System)

The Linear Tape File System (LTFS) makes viewing and accessing tape files easier than ever before. LTFS works in conjunction with LTO tape technology for ease of use and portability for open systems tape storage. With LTFS, one partition holds the content and the other holds the content's index, so the tape can be self-describing to improve archive management. With the operating system's graphical file manager and directory tree, utilising data on an LTO Ultrium tape cartridge is as easy as dragging and dropping the file.

### 100% compatibility with all hardware brands !

Backward compatibility is defined by the LTO consortium. 2 prior generations for reading and 1 prior generation for writing.

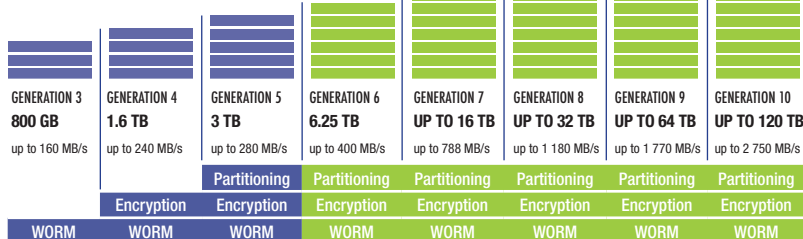
### Drive/Media compatibility

Cartridge	Drive						
	LTO1	LTO2	LTO3	LTO4	LTO5	LTO6	LTO7
LTO1	Read/Write	Read/Write	Read	-	-	-	-
LTO2	-	Read/Write	Read/Write	Read	-	-	-
LTO3	-	-	Read/Write	Read/Write	Read	-	-
LTO4	-	-	-	Read/Write	Read/Write	Read	-
LTO5	-	-	-	-	Read/Write	Read/Write	Read
LTO6	-	-	-	-	-	Read/Write	Read/Write
LTO7	-	-	-	-	-	-	Read/Write

Sony is investigating and developing its technology to acquire the format license of the next generation.

### LTO ULTRIUM ROADMAP

Addressing your storage needs



Note: Compressed capacities for generations 1-5 assume 2:1 compression. Compressed capacities for generations 6-10 assume 2.5:1 compression (achieved with larger compression history buffer).

Source: The LTO Program. The LTO Ultrium roadmap is subject to change without notice and represents goals and objectives only.

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Sony Europe Limited

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