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Maxell LTO Ultrium5 Catalogue

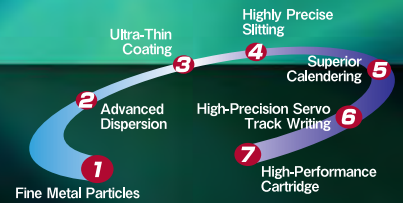
**1.5TB / 3TB**  
**LTO Ultrium5**  
**DATA CARTRIDGE**

**Maximum Storage Capacity 3TB**  
**New Maxell LTO Ultrium 5 data cartridge**



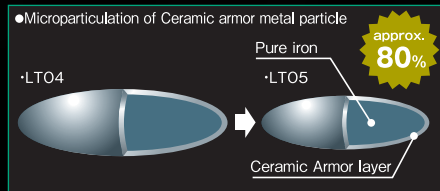
# Maxell introduces the 5th generation "LTO Ultrium 5 cartridge", with a storage capacity of 3TB\* based on Maxell's NeoSMART technology.

■ LTO5



## Advanced Ultra-fine Ceramic Armor metal particles for 3TB\* capacity

New ultra-fine ceramic-armored metal particles with high energy and superior recording performance realize high capacity at 3TB\*. Maxell's ceramic armor coats the metal particle with a thin ceramic layer to protect it from corrosion and provides advanced archival storage life and superior durability.



## Proprietary dual binder system for superior tape durability

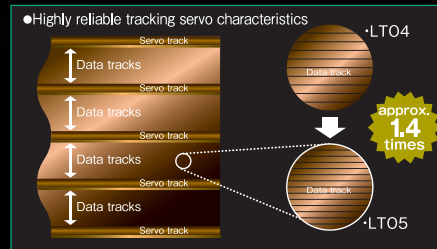
Maxell's exclusive magnetic coating was formed by cross-linking the binder system with two different functional binders. Also, a unique control system for lubricants is adopted. This allows for an extremely strong chemical linkage of the magnetic coating layer, which results in superior durability and excellent stability during long term storage.

## Ultra-thin coating and advanced calendaring technologies

Maxell developed this technology to enable uniform, ultra-thin and sub-micron magnetic coating. This technology, along with an advanced calendaring process achieves remarkably high output and enhanced stability for read/write performance.

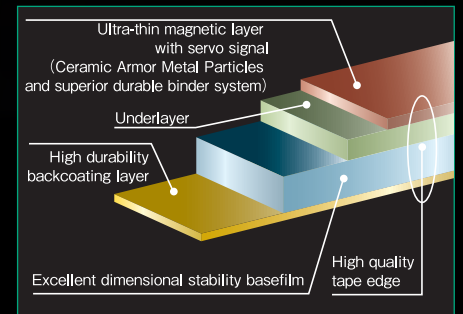
## Highly reliable tracking servo characteristics

Extremely accurate servo writing technologies, which Maxell developed originally in its manufacturing process, ensure stable servo characteristics and superior tracking reliability, corresponding to increased data track density, approximately 1.4 times compared with LTO4, to achieve the high capacity of 3TB\*.



## Basefilm with superior dimensional stability

For significantly increased data track density, the high rigidity basefilm with superior dimensional stability ensures excellent reliability and durability for high density recording and playback, as well as for archival storage.



## Cartridge memory and unique color with more user benefit

Built-in non contact 8KB memory chip stores historical usage records and enables the drive to do high speed data searches. Moreover, the LTO5 reddish brown cartridge provides quick and easy visual identification.

## Encryption capabilities for high security

The LTO Ultrium 5 format features data encryption capabilities that enable the LTO drive hardware-based writing of encryption data to the LTO cartridge, helping to protect the transport and storage of sensitive or confidential information, as well as LTO4.

## Write Once Read Many (WORM) cartridge for data protection and management

Maxell LTO Ultrium 5 cartridges are also available as a WORM (Write Once Read Many) product that can be read numerous times but only write once preventing accidental tampering, erasing and overwriting of data, as well as LTO3, LTO4. It allows secure backup and storage of critical data for legal and regulatory compliance.

■ LTO5 WORM



■ Specification

Model	LTO5	LTO5 WORM
	LTO5/1500 XJ	LTO5/1500W XJ
Cartridge color	Reddish brown	"Reddish brown/Gray two-tone"
Storage capacity (2:1 compressed)	1.5TB (3TB)	
Maximum transfer rate (2:1 compressed)	140MB/s (280MB/s)	
Coercivity	227kA/m (2850 Oe)	
Tape length	846m	
Tape thickness	6.4µm	
Tape width	12.65mm	
Cartridge dimension	102.0×105.4×21.5mm	
Operating environment	10°C~45°C/10~80%RH max. wet-bulb temperature:26°C	
*Storage environment (Archive environment)	16°C~35°C/20~80%RH (16°C~25°C/20~50%RH) max. wet-bulb temperature:26°C	
Weight	267g	

■ LTO Data cartridge/Drive compatibility

		Drive				
		LTO1	LTO2	LTO3	LTO4	LTO5
C a r t r i d g e	LTO1	R/W	R/W	R	—	—
	LTO2	—	R/W	R/W	R	—
	LTO3	—	—	R/W	R/W	R
	LTO4	—	—	—	R/W	R/W
	LTO5	—	—	—	—	R/W
	LTO CL	C	C	C	C	C

R:Read, W:Write, C:Compatible, —:Non compatible

\*Assumes 2:1 data compression.

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All features and specifications are subject to change without notice.