

# LTO-10 Tape Drive Technology

## Maximized performance & enhanced security

The LTO-10 tape drive is a revolutionary technological advancement, offering up to 30 TB of native storage capacity and sustained data transfer rates of 400 MB/s. Built on an entirely new platform, LTO-10 introduces a reimagined tape path and 32-channel “Pisa” head for greater stability and performance. With support for 32G Fibre Channel or 12G SAS, LTO-10 delivers simplified operations, robust reliability, and seamless integration into modern storage environments.



### Peak Performance



Delivers exceptional performance: data transfer rates up to 400MB/s native and 1,200MB/s compressed.

Secure and efficient data access, meeting the demands of high-capacity storage requirements.

### 30TB Native Capacity



Provides high data storage capacity of up to 30TB per cartridge native and 75TB compressed, enabling organizations to address exponential data growth.

### Immutable Data Protection



Ensures data security with hardware-based encryption.

Write Once Read Many (WORM) enhances immutability and prevents unauthorized alteration of data.

### Assured Data Integrity



Spectra® Certified Media offers the most reliable cartridges - cleaned, tested and verified to the highest quality standard, backed by a lifetime warranty.

### What's Different with LTO-10

- 67% more capacity than LTO-9, 18TB to 30TB
- Pivoting 32-channel “Pisa” Head reimagined read/write head and tape path
  - Improves tape dimensional stability
  - Eliminates media initialization
  - Eliminates archive low tension unload
  - Increases environmental design margin
- New hardware platform enables future LTO generations



LTO-10 Tape Drive

# LTO-10 Tape Drive & Media Overview

## Capacity on Demand

Spectra Logic has meticulously designed a seven-step process that all media must pass before it qualifies as Spectra Certified Media. The rigorous certification process has been refined over multiple tape generations, millions of cartridges and several patents, ensuring superior media quality for efficient, pain-free backup and archive.

## Start with Only the Best Media

Spectra Certified Media offers the industry’s most reliable tape solution, keeping your data secure using only the highest-quality media available.

Our solution surpasses all other manufactured tapes, giving you peace of mind. Spectra Certified Media benefits:

- Highest and most consistent media performance and capacity
- Faster tape drive write times due to fewer rewrite errors
- Extends the life of tape drives and media
- Investment protection with a Spectra Lifetime Guarantee

Spectra Certified Media provides worry-free data protection with the highest quality LTO and cleaning media.



Spectra Certified Media LTO-10

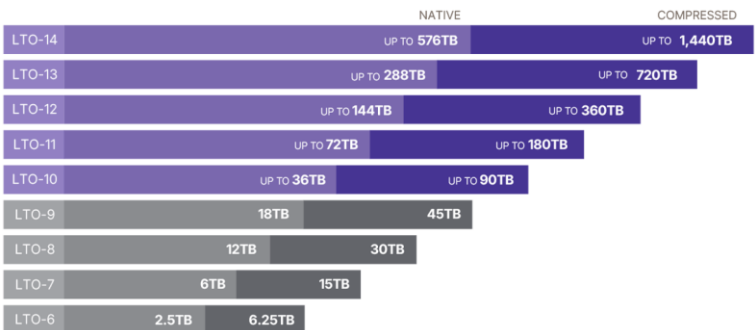


Spectra TeraPack Magazine

## LTO-10 Tape Drive Specifications

Capacity	30TB native	75 TB compressed (2.5:1)
Data Cartridge	LTO-10	
Data Transfer Rate	400 MB/s native (full-height)	1,200 MB/s compression 3:1 (full-height)
Data Compression	SLDC	
Encryption	AES 256-GCM	
Interface	32GB Fibre Channel or 12 GB SAS	
Power Consumption	40 watts read/write	27 watts idle
MTBF	250,000 power on hours at 100% duty cycle	

## LTO Roadmap



Source: [The LTO Program](#). On 5/27/25, LTO-10 was announced with a native capacity of 30 TB and a compressed capacity of 75 TB.

LTO (Linear Tape Open) is the only open format tape technology available, resulting from a cooperative development effort in the industry. LTO media is a low-cost, yet high-performance storage standard. LTO-10 is the current generation, and the LTO roadmap goes out to generation 14.

## About Spectra Logic Corporation

Spectra Logic modernizes IT infrastructures to preserve, protect and defend data, from days to decades, whether on-premises, in a single cloud, across multiple clouds or in all locations at once. Our cost-effective solutions help organizations efficiently manage, migrate and store long-term data, from terabytes to exabytes, with features that make it ransomware resilient.