

Spectra T950



Enterprise-class performance in a midrange library

Spectra® T950 midrange tape library presents unparalleled flexibility with minimal management effort. It enables scalability of storage capacity and performance to meet evolving needs. Users can easily manage their library, configurations, and partitions and monitor library, media, and drive health through remote or local access. Spectra T950 library features a future-proofed architecture that preserves and extends the life of your investment.



Efficient Tape Management



- Streamline tape media handling, moving and loading with TeraPack® magazines
- TeraPacks store ten LTO or nine IBM® TS11XX tapes, tripling capacity per square foot

Investment Protection



- Migrate your existing LTO or TS11XX tape drives to the T950, even from another vendor
- Upgrade the T950 to a TFinity® Plus tape library for increased capacity and performance

Built-In Encryption



- Integrates key management and AES 256-bit encryption as a standard feature
- Enhances backup security with encryption without altering backup policies

Integrates into your Environment

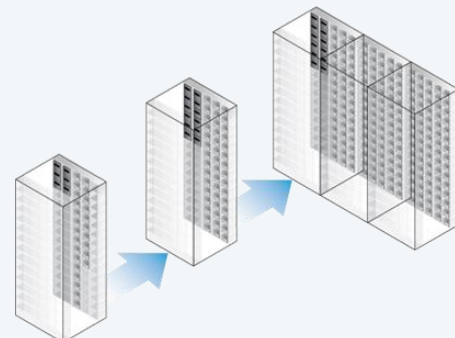


- Adapts to any environment by supporting multiple protocols, applications and operating systems
- Shares library resources across users or applications by partitioning into multiple libraries

Capacity on Demand

Start with a minimal configuration and expand storage capacity as needed. This approach helps reduce upfront costs and optimize investments.

- Adding tape slots via software activation avoids costly hardware changes or downtime.
- Frames can be easily added to a Spectra T950, allowing for effortless scaling without the need for extensive hardware changes.



Spectra T950 Features and Specifications

Reliability Features

Spectra T950 tape library ensures optimal efficiency and reliability with advanced lifecycle management features, rapid data integrity assessments, and exceptional Mean Cycles Between Failures (MCBF), offering a future-proofed investment for streamlined and secure data management.

- **Drive Lifecycle Management (DLM):** Analyzes and reports on tape drive health within the library
- **Library Lifecycle Management (LLM):** Tracks library utilization with its expected lifespan
- **Media Lifecycle Management (MLM):** Monitors health and security of [Spectra Certified Media](#)
 - PreScan: Checks tape writability upon import
 - QuickScan: Rapidly assesses data integrity by scanning one track
 - FullScan: Comprehensive check of the entire tape for media errors
- **Mean Cycles Between Failures (MCBF):** Over 2 million
- **Mean Time Between Failures (MTBF):** 250,000 power-on hours
- **Mean Time to Repair (MTTR):** 3 minutes for hot swap components, 30 minutes average for non-hot swap components



Specifications

Library	Spectra T950 (Single frame configuration)		Spectra T950 (8-frame configuration)	
	LTO-9	TS1170	LTO-9	TS1170
Max Media/Slot Count	920 (LTO)	594 (TS1170)	10,020 (LTO) (8-frames)	7,614 (TS1170) (8-frames)
Max Native Capacity	16.5PB	29.7PB	180.3PB	380.7PB
Max Compressed Capacity¹	41.4PB	89PB	450.9PB	1.1EB
Max Drives²	24	24	120	120
Max Native Throughput (TB/hr.)	34.6	34.6	172.8	172.8
Max Compressed Throughput (TB/hr.)	77.8	77.8	388.8	388.8
Max SLS Partitions	16	16	16	16
Tape Drive Supported	LTO	IBM® TS11XX	LTO	IBM® TS11XX
Dual Robotics	N/A	N/A	N/A	N/A

Tape Drive Specifications and Environments

Tape Drive Specifications

LTO-9 Drive Specifications (Full Height Only)			IBM TS1170 Technology Drive Specifications		
Capacity	18 TB (Native)	45 TB (2.5:1 Compression)	Capacity	50 TB (Native)	45 TB (2.5:1 Compression)
Performance	400 MB/s (Native)	900 MB/s (Compressed)	Performance	400 MB/s (Native)	900 MB/s (Compressed)
Backward Compatibility	LTO-8 Media (Read / Write)		Backward Compatibility	No backward compatibility with other TS11XX technology	
Speed Matching	177 MB/S to 400 MB/s		Speed Matching	112 MB/s to 400 MB/s	
Interface	8 Gb/s FC and 12 Gb/s SAS		Interface	16 Gb/s FC and 12 Gb/s SAS	

Tape Drive Environments

All LTO Drives, TS1150, TS1155, and TS1160					
Mode	Dry-bulb Temperature	Maximum Temperature Rate of Change	Relative Humidity (non-condensing)	Maximum Humidity Rate of Change	Altitude (max)
Allowable Environment	16°C to 32°C (60°F to 90°F)	5°C per hour 9°F per hour	20% to 80% 22°C dew point max	5% per hour with no condensation	3,048 m (10,000 ft)
Recommended Environment	16°C to 25°C (60°F to 77°F)	5°C per hour 9°F per hour	20% to 50% 22°C dew point max	5% per hour with no condensation	3,048 m (10,000 ft)

TS1170 Drives					
Mode	Dry-bulb Temperature	Maximum Temperature Rate of Change	Relative Humidity (non-condensing)	Maximum Humidity Rate of Change	Altitude (max)
Recommended and Allowable Environment	16°C to 25°C (60°F to 77°F)	5°C per hour 9°F per hour	20% to 50% 22°C dew point max	5% per hour with no condensation	3,048 m (10,000 ft)

1. LTO compression ratio is 2.5:1. TS1170 compression ratio is 3:1.
2. Drive types are full height unless noted.

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.