



T950 Enterprise Storage Without Compromise

The Spectra® T950 library is designed and built to meet the stringent requirements of the enterprise for data integrity, data security and high reliability. The T950 library reduces staff involvement significantly, affordably scales in throughput and capacity, and supports multiple generations of current and future tape formats. Support options range from the expected 24x7 worldwide onsite support to more advanced options. These capabilities include our industry-first Assisted Self Maintenance (ASM) program as well as proactive management and reporting tools that ensure you maintain optimal system availability.

Simplified Management



BlueScale, the common software interface for all Spectra libraries, brings enterprise command and control features to the T950. Available through the library's on-board LCD color touch-screen and remote web access, BlueScale is an easy-to-navigate, browser-based library interface built into Spectra Logic libraries that enables our solutions to work easily, flexibly and safely with your data.

A single BlueScale® user interface manages an entire T950 without any external servers. BlueScale manages your library, configurations, partitions, encryption key management and all library/media health monitoring. By consolidating all management functions in a single T950, you save time managing the library and lower costs by eliminating the need for additional equipment, software license charges or additional power or cooling requirements of extra server hardware.

The Spectra T950 offers encryption and key management as seamless, integrated standard features. Spectra's BlueScale Encryption utilizes AES-256 bit encryption through the library for LTO-4 and higher drives. It lets you seamlessly and affordably add encryption to your backup strategy, with no changes to backup policies and no additional hardware or software.

Increase Staff Productivity

The T950 brings an elegant, straightforward solution to managing large quantities of tapes: TeraPack cases, each holding up to 10 tape cartridges. Using TeraPack containers reduces the time required handling media by 90 percent. Users can load 100 LTO tapes in ten TeraPack cases in six minutes, compared to the hour it takes to load 100 tapes individually into other libraries.



Complete Lifecycle Management



For highly reliable tape archive and backup, the T950 tracks and reports all of the expected lifetime utilization thresholds for tape media, drives and library components. With advance notification of your library environment, you can address the critical components of your library before anything becomes an operational issue.

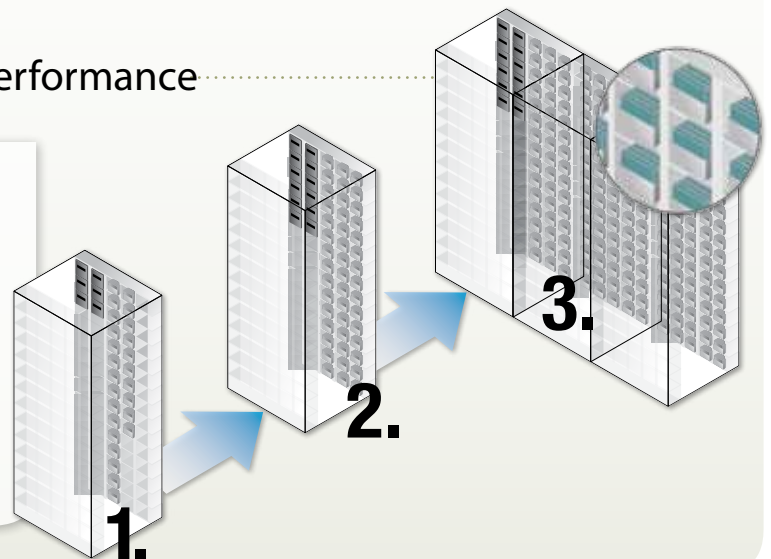
To ensure the viability of your data, Media Lifecycle Management (MLM) reports over 30 health and security related data points on Spectra Certified Media. Detailed reporting mitigates media problems and restore issues, allowing you to proactively remaster data onto new media before you need it. For further integrity, ScanTape PreScan™ tape verification inspects that newly imported tapes are in good health and not write protected. After writing, PostScan™ tape verification confirms there are no media errors on the tape.

Like MLM, Drive Lifecycle Management (DLM) extends the same proactive approach to drives by integrating tape drive analysis and reporting within the library. By using easy-to-manage color-code icons, you quickly identify the health status of a drive. DLM also offers easy-to-use tape drive diagnostics to test and verify drive health and operation.

Managing the health of your library's critical components is made easy with Library Lifecycle Management (LLM). By delivering utilization metrics relative to expected useful life of library robotics, batteries and filters, you are able to proactively service your library before issues occur.

Affordable, Incremental Scalability and Performance

1. Every Spectra T950 ships with all of the tape slots installed. Enable slots as you need them with a simple software key activation.
2. Based on your needs, more capacity or performance can be easily added. Purchase more drives and slots, and let the library grow with your data.
3. Once your data has grown to the limits of your initial configuration, there's no need to go looking for a new library. Just add an expansion cabinet to keep growing. The T950 can expand all the way up to 120 drives and 10,050 slots in eight frames.



Energy-Efficient Storage

The T950's energy-efficient, compact design helps you reduce your overall storage power consumption. By using innovative TeraPack containers stored in horizontal shelves, the T950's components operate in a smaller space. The result of our design is a highly dense storage unit that consumes less power and provides you with an environmentally-friendly storage solution. It also offers tools that give you greater control of your budget. Our patented BlueScale EnergyAudit™ feature allows you to monitor and record your library's power consumption.

COMPARISONS: Total power consumption per TB protected

T950	3.25 BTU/TB
Sun L1400M	3.3 BTU/TB
Sun SL8500	4.6 BTU/TB
Sun SL3000	4.6 BTU/TB
HP ESL712e	7.2 BTU/TB
Quantum i2000	11 BTU/TB
STK 9310	11.4 BTU/TB
IBM TS3500	15.3 BTU/TB



Consolidate Data using Integrated Partitioning

With support for multiple connectivity protocols as well as all major backup software packages and operating systems, the T950 fits easily into any environment. The T950's Shared Library Services lets data centers implement simple, integrated partitioning, so that a single library appears to the SAN as multiple libraries. Unlike other partitioning solutions that involve complicated and expensive external partitioning servers, network connections, and proprietary client software, you can easily partition the Spectra T950 using the library's BlueScale interface.

Support When, Where and How you want it

Support for Spectra T950 ranges from our standard worldwide next business day replacement to more advanced alternatives, including next day, same day, four-hour onsite service or our exclusive Assisted Self-Maintenance option. Our expertise comes from over 30 years of solving real problems with hands-on lab work and on-site technical support. Our support staff is cross-trained over the entire storage environment—not just hardware—so we can assist you with all aspects of a problem. From open to close, we are committed to resolving any issue.

Assisted Self-Maintenance (ASM)

An industry-first support supplement designed for customers requiring minimal downtime. ASM stocks a select group of customer replaceable parts at your site, giving you the ability to make immediate repairs and eliminate the delays that a site visit can involve.



Drive



Power Supply



Robotics



I/O Blade (QIP)

Our Assisted Self Maintenance feature enables you to replace select parts yourself.

Product Specifications

Media*	One frame max slots	One frame max capacity	8 frame max slots	8 frame max capacity
LTO-5 3.0 TB compressed	950 tapes 95 TeraPack magazines	2.85 PB compressed	10,050 tapes 1,005 TeraPack magazines	30.15 PB compressed
LTO-4 1.6 TB compressed		1.5 PB compressed		16 PB compressed
LTO-3 800 GB compressed		760 TB compressed		8 PB compressed

Drive*	One frame max drives	One frame max throughput	8 frame max drives	8 frame max throughput
LTO-5 280 MB/sec compressed	24 drives	24.2 TB/hour compressed	120 drives	121.0 TB/hour compressed
LTO-4 240 MB/sec compressed		20.7 TB/hour compressed		103.7 TB/hour compressed
LTO-3 160 MB/sec compressed		13.8 TB/hour compressed		69.1 TB/hour compressed

Contact Spectra Logic for availability of SDLT.

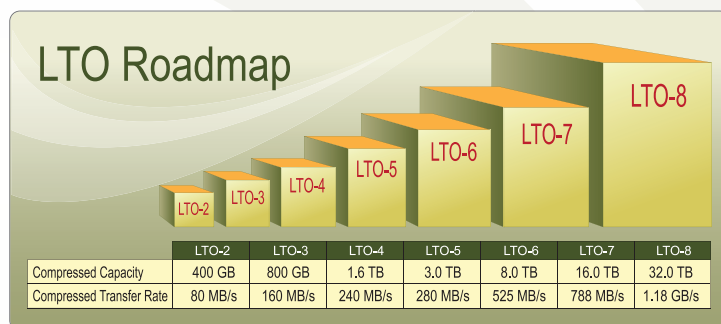
Physical Characteristics

Dimensions:

- H 200 cm, W 77.8 cm, D 109.8 cm
- H 78.77 in, W 30.63 in, D 43.21 in
- Power Requirements: Input Power: 8.2-6.8 Amps (RMS) at 200-240 VAC, 50/60 Hz (max config)
- Heat Dissipation: Max. 5,898 BTU/h (1 Frame, 24 drives)

Weights:

- Base Frame (no drives or media) - 800 lbs/362 kg
- Drive Expansion Frame (no drives or media) - 750 lbs/340 kg
- Media Expansion Frame (no media) - 700 lbs/317kg
- Drive/Sled - 12 lbs/5 kg
- TeraPack Case (with media) - 6 lbs/3 kg



Support planned for additional Ultrium LTO generations (LTO-6 to LTO-8). Compressed capacities for generations 1 through 5 are 2:1 and for generations 6 through 8 are 2.5:1. Product generations and release dates are subject to change.

Interfaces:

- FC I/O Blade (QIP)
 - 2 Gb/sec, dual port
- Native Fibre Channel (4Gb/8Gb)

Reliability Stats

- Mean Cycle Between Failures (MCBF): 2,000,000
- Mean Time Between Failures (MTBF): 250,000 power-on hrs.
- Mean Time to Repair (MTTR):
 - 3 minutes for hot-swap components,
 - 30 minutes average for non-hot-swap components

