SPECTRA®

T50e

Enterprise Performance in a Compact Library

By combining field-proven reliability with cutting-edge storage innovation, the Spectra® T50e Tape Library gives you enterprise capabilities in a compact, 4U rackmount or desktop tape library. Built upon Spectra's vast experience in tape automation and many generations of BlueScale® software, the Spectra T50e is simply the most reliable and feature-rich solution available in the small library market today. The T50e offers you advanced LTO technology, powerful library management, increased security through our integrated BlueScale® Encryption, plus a range of support options to suit your needs. With more innovative features than any other library in its class, the T50e easily stands out in front.

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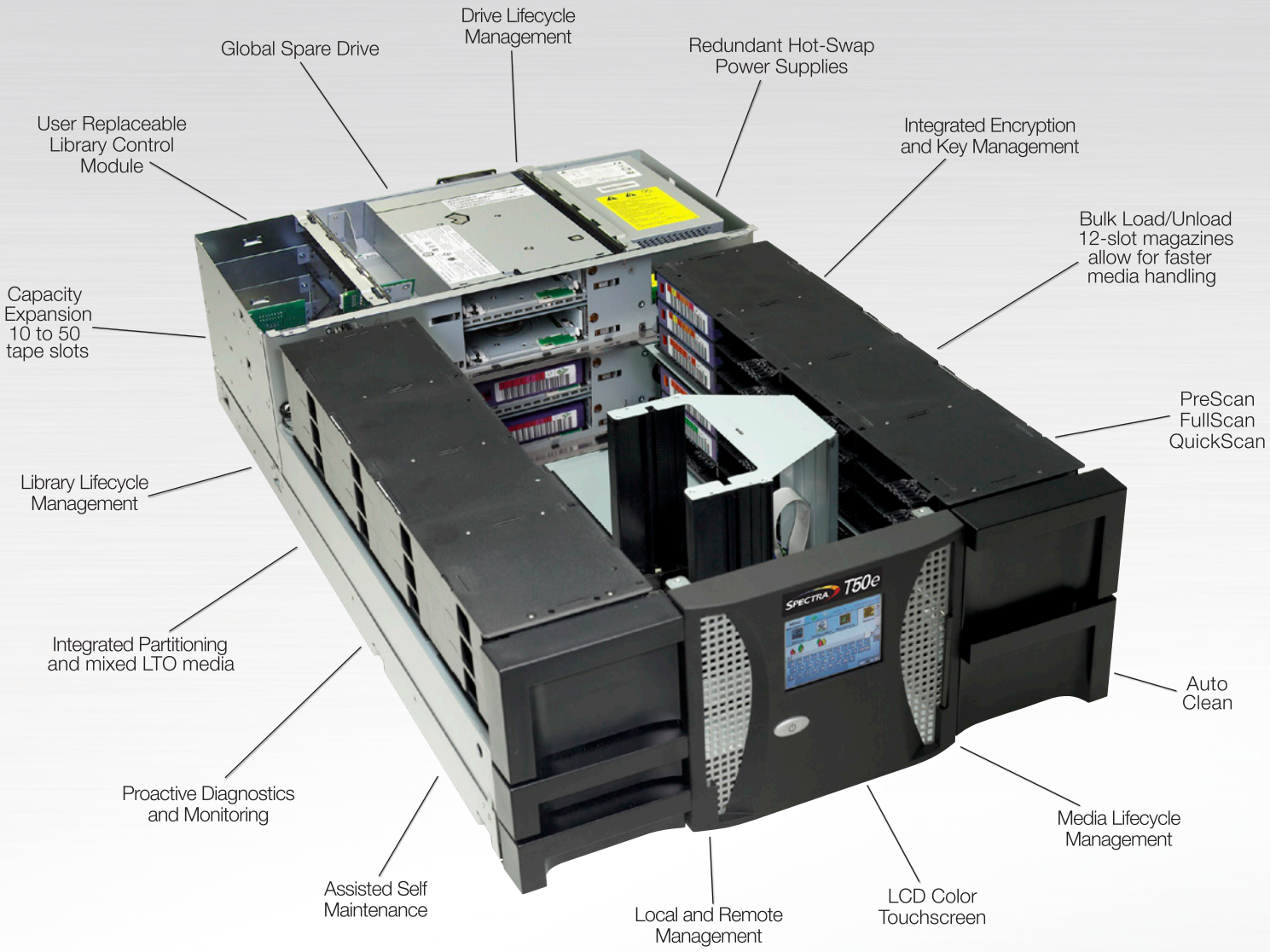
Spectra T50e: Robust and Reliable

More features and functionality than any competing tape library.



Simplified Management

Available through the library's onboard LCD color touch screen and remote web access, BlueScale is a library interface solution built into Spectra products that enables our libraries to work simply, flexibly, and safely with your data. BlueScale has been continuously enhanced with features ranging from self-monitoring to integrated encryption and Media Lifecycle Management – giving you a structure that supports new technologies and more protection for your data.

POWERED BY BlueScale INTELLIGENCE

Integrates with Your Environment

The T50e is compatible with SAS and fibre channel interfaces, ensuring the best possible performance. It is also compatible with all industry standard operating systems including Windows, Linux, UNIX and Mac OS; and seamlessly integrates with the major backup applications.

Better Reliability Through Lifecycle Management

To ensure the viability of your data, Media Lifecycle Management (MLM) tracks and reports on health and security-related statistics for Spectra Certified Media. Detailed reporting mitigates media problems and restore issues, allowing you to copy and move your data onto new tapes before degraded media affects your data.

Like MLM, Drive Lifecycle Management (DLM) extends the same proactive approach to drives by integrating tape drive analysis and reporting within the library. Using easy-to-manage, color-coded icons, you can 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 the expected useful life of library robotics, filters and other critical components, you are able to service your library before issues occur.

Data Integrity Verification

To give you data integrity verification, Spectra offers a sophisticated suite of standard features that allow you to actively check data already written to tape. PreScan checks each imported tape and verifies that the tape can be written to, scanning the tape for potential issues including broken or dislodged leader and write-protected status. QuickScan scans a tape uni-directionally by reading the length of one track of the tape to provide a rapid indicator of integrity of data written. FullScan confirms that there are no media errors on the tape by reading the entire length of the tape up to the end of the recorded data. To ensure that the data is valid, you can set triggers to check the health of tapes over an interval of time or verify a specific tape's data integrity on request. This process allows for rapid spot-checks of data integrity.

The Only Integrated Encryption and Key Management Solution Available

The Spectra T50e offers encryption and key management as seamless, integrated standard features. Spectra's BlueScale Encryption utilizes AES-256 bit encryption through the library for LTO tape drives. It lets you easily and affordably add encryption to your backup strategy, with no changes to backup policies and no additional hardware or software.

Assisted Self-Maintenance (ASM)

When a component needs replacement, Spectra gives you the option to do it yourself without onsite support. ASM is an industry-first support option designed for environments where normal support services are available but not always feasible for specific customers (i.e. high-security facilities, mobile sites such as ships). ASM parts are stocked at your site, giving you the ability to make immediate repairs and eliminate any waiting periods.

ASM enables you to replace select parts yourself.

The Only Library that Takes Care of Itself

Eliminate downtime by preventing unexpected failures with the T50e's AutoSupport feature. The T50e self-monitors its drives, power supplies, controller and robotics, alerting you when they need attention. It also "phones home" by emailing a notification to SpectraGuard® Support and opening a ticket automatically. You can be on the way to a resolution—without making a phone call. When you're ready to call SpectraGuard, your agent has the trace logs, status information and library configuration details to help you quickly resolve the issue before it can have an operational impact.

SpectraGuard Support

Support for Spectra midrange libraries ranges from our standard worldwide next business day onsite to more advanced alternatives, including same day, four-hour onsite service or our exclusive Assisted Self-Maintenance option.

Our expertise comes from nearly 40 years of solving real problems with hands-on lab work and onsite 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.

Product Specifications

Physical Characteristics

- Supports up to four half height LTO drives
- Tabletop unit dimensions: 7.3" H x 17.5" W x 31.6" D
  18.5 cm H x 44.4cm W x 80.3 cm D
- Rackmount dimensions (4U): 6.9" H x 17.5" W x 31.6" D
  17.5cm H x 44.4cm W x 80.3cm D
- Weight (4 Drives): 84.0 lbs / 38.1 kg

Interface Options:

- SAS - 6 Gb/s
- Fibre Channel - 4 Gb/s and 8 Gb/s

Reliability Statistics

- Mean Cycles Between Failures (MCBF): Over 1 million
- Mean Time Between Failures (MTBF): 100,000 power-on hours
- Mean Time to Repair (MTTR): <20 minutes for hot and non-hot swap compoznents

T50e Capacity and Throughput

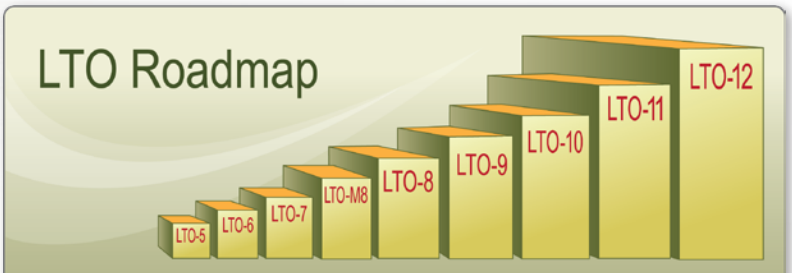
Media	Max Drives	Max Cartridges	Max Capacity	Max Throughput
LTO-8	4	50	600 TB 1.5 PB**	5.18 TB/hr 10.8 TB/hr
LTO-M8*	4	50	450 TB 1.12 PB**	4.3 TB/hr 10.08 TB/hr
LTO-7	4	50	300 TB 750 TB**	4.3 TB/hr 10.8 TB/hr

*LTO-M8 = LTO-7 Type M Media **Compressed capacity calculated using 2.5:1 ratio.

Power Requirements

- 100–127 VAC, 50/60 Hz; 4 amps per cord
- 200–240 VAC, 50/60 Hz; 2 amps per cord

LTO Technology



	LTO-5	LTO-6	LTO-7	LTO-M8*	LTO-8	LTO-9	LTO-10	LTO-11	LTO-12
Shipment Year	2010	2013	2015	2017	2017	TBD	TBD	TBD	TBD
Native Capacity	1.5TB	2.5TB	6TB	9TB	12TB	Up to 24TB	Up to 48TB	Up to 96TB	Up to 192TB
Compressed Capacity	3.0TB	6.25TB	15TB	22.5TB	30TB	Up to 60TB	Up to 120TB	Up to 240TB	Up to 480TB
Native Transfer Rate	140 MB/s	160 MB/s	300 MB/s	300 MB/s	360 MB/s	TBD	TBD	TBD	TBD
Compressed Transfer Rate	280 MB/s	400 MB/s	700 MB/s	700 MB/s	750 MB/s	TBD	TBD	TBD	TBD

*LTO-M8 = LTO-7 Type M media

LTO (Linear Tape-Open) Ultrium Technology is optimized for high capacity and performance with exceptional reliability in either a stand-alone or an automated environment. It uses a single reel cartridge to maximize capacity. Ideally suited for backup, restore, and archive applications, the LTO tape format establishes a new benchmark for large volume backup and archive. LTO technology will meet the needs of the small to large enterprise through a single-server user with a roadmap and migration path that extends well into the next decade.

About Spectra Logic Corporation

Spectra Logic develops data storage solutions that solve the problem of long-term digital preservation for business and technology professionals dealing with exponential data growth. Dedicated solely to storage innovation for nearly 40 years, Spectra Logic's uncompromising product and customer focus is proven by the adoption of its solutions by industry leaders in multiple vertical markets globally. Spectra enables affordable, multi-decade data storage and access by creating new methods of managing information in all forms of storage—including archive, backup, cold storage, private and public cloud. To learn more, visit www.SpectraLogic.com.

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800-833-1132 • 303-449-6400 • (Fax) 303-939-8844 • 6285 Lookout Road • Boulder, CO 80301 USA

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