



Changing The World of Storage

T50e Automated Tape Library



SPECTRALOGIC.COM

“ The Spectra T50 is a wonderfully reliable backup tool that delivers smoking-fast performance rates. Its feature set is truly enterprise-grade in comparison to competitive models we used in the past. The T50 continues to impress us as we change software packages and test its limits. T50 does not let us down. ”

**Matt Culver, NOAA
National Weather Service**



“ Spectra Logic is six to nine months or more ahead of the technology curve. They offer solutions and features that no other vendor had at the time we purchased. We selected Spectra Logic because it helped reduce our costs—the libraries have increased our uptime, and are simple to manage. Peapod has recommended and continues to recommend Spectra Logic to our peers. ”

**Nick Miles, Sr. Manager
of Database and Storage
at Peapod.**

Peapod

Online grocery shopping and delivery.



It's just a better library.

More features and functionality than any competing tape library.

Hardware Health Monitor

Low power usage and monitoring

Dual Port Fibre Channel LTO Drives or 1 to 4 SCSI LTO Drives

Redundant Hot-Swap Power Supplies

Integrated encryption and key management

Single Media Entry/Exit Port

User replaceable Library Control Module

TranScalable

Capacity Expansion 10 to 50 tape slots

Integrated partitioning and mixed media

Proactive diagnostics and monitoring

Assisted Self Maintenance

Robust Mechanical Design Robotics can be replaced in the field

Bulk Load/Unload 12-slot magazines allow for faster media handling

Media Lifecycle Management

Local and remote management

LCD Color Touchscreen

It's just a better library

Why is it better?

By combining field-proven reliability with cutting-edge storage innovation, the Spectra® T50e gives you enterprise capabilities in a compact, 4U rackmount library. Built upon five generations of Spectra Logic hardware and ten generations of BlueScale® software, the Spectra T50e is simply the most reliable and feature-rich solution available on 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. *It's just a better library.*



The best user interface

Backing up and protecting data requires a lot more than a few tapes or disk drives. It demands built-in intelligence to simplify the process of data protection, and the flexibility to stay apace with new technology to keep data safe. Available through the library's on-board LCD color touchscreen and remote web access, BlueScale is a library interface solution built into Spectra Logic products that enables our libraries to work simply, flexibly, and safely with your data. For over 14 years, BlueScale has been continuously updated and enhanced with features ranging from self-monitoring to encryption to media management—supplying a tightly integrated structure that supports new technologies and requirements to better safeguard your data.

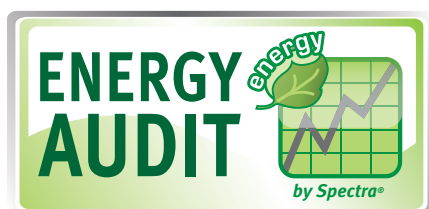
The only encryption and key management solution available

The Spectra T50e is the only library in its class that offers a truly integrated encryption option—for free. Spectra removes the cost and complexity associated with encryption by centralizing AES-256 bit encryption and key management into the T50e, allowing you to add encryption into your backup strategy in just a few steps. Within the BlueScale interface, you access BlueScale Encryption and utilize Key Management to enable your LTO-4* drives to encrypt your data quickly and seamlessly. Spectra's BlueScale hardware-based encryption also doesn't burden your network performance and it minimally affects your backup windows.



The only energy-aware library

The T50e is a high-density storage unit that consumes minimal power and allows you to take full advantage of tape's energy efficiency. With more power-centric features than any other comparable solution on the market, the T50e also includes tools to track your power usage. Our patented BlueScale EnergyAudit™ feature allows you to display and record the library's power consumption, giving you greater control of your data center— and budget.



“Once we learned of the availability of Spectra Logic's hardware-based encryption, there was no competition. Purchasing a full-blown encryption software solution would have cost much more than we paid for the Spectra library. It wasn't a difficult decision. Everyone I worked with at Spectra Logic was highly technical and extremely professional—plus they met our 2-week installation goal. Resources are available when I have questions—Spectra Logic did not just 'disappear' after they received the purchase order.”

Scott Chandler,
Systems Engineer
of Adheris, Inc.

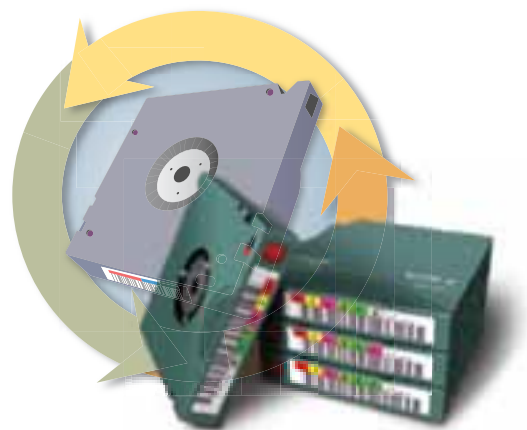


Adheris 

*Drive-based encryption in LTO-4 and all future LTO versions.

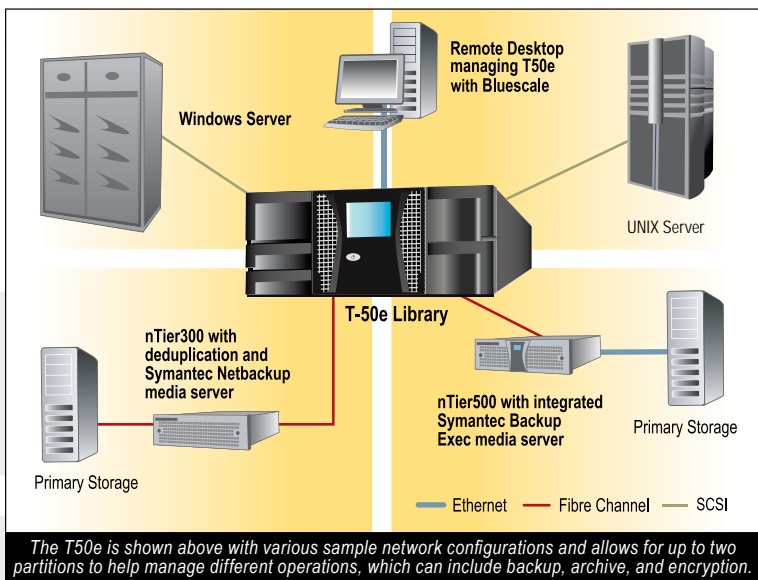
The only library with Media Lifecycle Management

Certified Media from Spectra Logic has a set of unique features and guarantees that regular media does not offer, greatly reducing many of the traditional pain-points experienced with managing regular tape. Media Lifecycle Management (MLM)* helps you manage your tape media by giving you tools to detect potential media and drive errors well before they happen. MLM records 30 data points every time a tape is loaded, providing you with vital statistical and diagnostic information that empowers you to proactively manage your tape media throughout its life. With Media Lifecycle Management and Certified Media together, you get the only comprehensive media protection solution available on the market today.



The best integration with your environment

The T50e is compatible with every interface and major networking protocol, including Fibre Channel, SCSI, and iSCSI,** letting you take advantage of high performance across your network and your backups. Also compatible with every major operating system from Windows, Linux, UNIX to Mac, the T50e works with all major backup applications such as Backup Exec, EMC, CommVault, NetBackup, NetVault, and more.

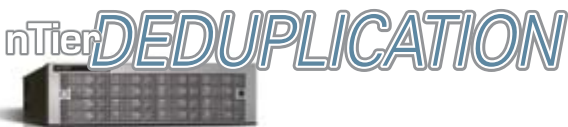


The T50e can even be shared with multiple servers and applications, allowing sites using two backup applications to use just one T50e. By configuring the library with partitions using Shared Library Services (SLS) you can quickly configure the T50e to work seamlessly with both applications.

Spectra Logic also offers disk-based options to complement the T50e, easily adding deduplication, VTL and D2D2T to your backup environment. The Spectra nTier backup and archive appliance is designed specifically for backup and archival data, providing an integrated, flexible, and powerful platform to meet all of your storage needs. By using both the Spectra T50e and nTier, you simplify your backup and archive. The common BlueScale interface manages your tiered tape and disk environment—you also consolidate your service and support into a single contract.

The best tape integration with deduplication

nTier Deduplication disk-based appliances ship as turnkey, pre-configured solutions that are ready to use in your backup environment. The nTier Deduplication product family helps you dramatically decrease your storage consumption with an average of 20:1 reduction in typical business environments, providing a logical capacity of almost one petabyte of data. nTier Deduplication also allows for low cost remote replication, globally deduplicating data across the organization, minimizing not only disk space, but also network demands. With Spectra's expertise in tape, you can be sure that the nTier connects seamlessly to the T50e, eliminating the tape and disk integration issues commonly experienced with other deduplication solutions.



“ The Spectra hardware-CommVault backup software combination acts as a single, standalone solution which is not dependant on other servers to ensure that our backups run smoothly. The solution has run perfectly and without performance reduction. We have the option to scale, add drives or slots and upgrade to a newer generation of LTO tape technology when the time is right for us. The user-friendly BlueScale management interface is a bonus incorporated into this all-in-one, future-proof tape library. ”

Jay Jahns
IT technician
New Braunfels Utilities
New Braunfels, Texas

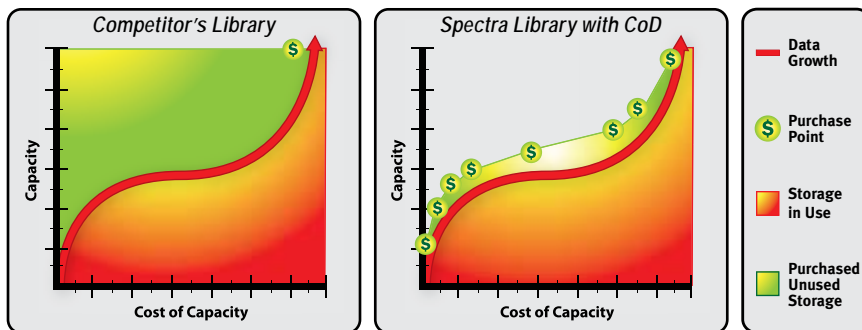


*Media Lifecycle Management Feature is expected to be available Q4, Calendar Year 2008.
**iSCSI will be available with LTO-5.

The best growth management available

Data growth is extremely hard to forecast. Additionally, over-purchasing storage leaves you vulnerable to wasted capacity and strained cash flow. Capacity on Demand (CoD) is the only program available to help you meet your needs for storage space quickly, efficiently, and cost-effectively. With CoD, you can purchase your T50e with exactly the number of tape slots that you need, and then grow within your T50e proportionately as your storage requirements increase. When it's time to add more storage, you purchase keys to instantly activate your additional slots (in increments as small as five) to increase the capacity of your T50e library.

Where do you go when you outgrow your T50e library? Spectra Logic has developed another industry-first concept that protects your original investment in storage—TranScale. Designed for incremental growth, libraries featuring TranScale accommodate storage requirements of organizations in every stage of their growth lifecycle. Making capacity upgrades seamless & affordable, TranScale lets you protect your time and investment in your features, backup environment setup and training as your storage requirements grow.



Why pay for it when you don't need it? Unlike competing libraries that require you to pay for all of your capacity up front, Spectra's CoD feature minimizes the burden of paying for unused storage, giving you the option to pay for storage only as you need it.



The T50e provides investment protection, allowing you to seamlessly expand to a larger library—which will have the same interface and purchased upgrades, but also more capacity, throughput, and features.

SPECTRAGUARD® Worldwide Support



The best service and support

Support for the Spectra T50e ranges from our standard worldwide next business day replacement to more advanced alternatives, including a choice of next day, same day, or four hour on site service and our unique Assisted Self-Maintenance option. You can also take advantage of the Spectra AutoSupport feature that proactively and immediately alerts you and SpectraGuard technical support of maintenance requirements and even impending problems. By proactively monitoring library status, Spectra Logic can head off trouble before it has an operational impact.

The only library with Assisted Self Maintenance

Assisted Self-Maintenance (ASM) is an industry-first support option designed for customers that require minimal downtime or for environments where normal support services are not feasible (e.g. high-security facilities, mobile sites such as ships). 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



LIBRARY CONTROLLER

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

Physical Characteristics
Dimensions HxWxD inches: 7 x 17.5 x 29 (4U) HxWxD cm: 17.78 x 44.5 x 73.7 (4U) Reliability: MCBF > 500,000 Weight: 40 lbs 18kg Maximum Power: 265 watts 120/240 volts

Connectivity
<ul style="list-style-type: none"> • SCSI • iSCSI (Future Release) • Fibre Channel • Dual Port Fibre Channel (LTO-4 only)

Upgrade Capacity and Performance
<ul style="list-style-type: none"> • 10-50 slots • 1-4 half-height LTO drives • 1-2 full-height LTO drives • Up to two partitions

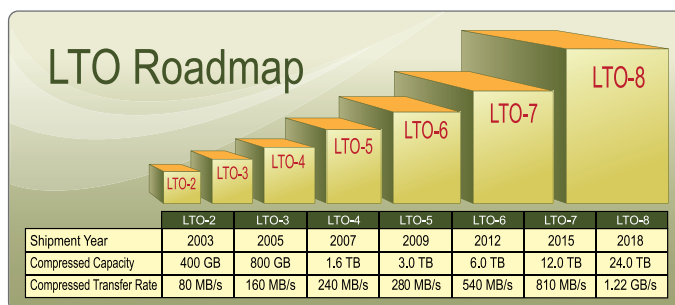
Supported By All Major Backup Applications			
BakBone	Xendata	Legato	Microsoft
CommVault	EMC	Masstech	Syncsort
Disk Extender	Microsoft DPM	SGL Flashnet	SGI
Computer Associates	IBM	Front Porch	Symantec
Works with all major operating systems including Windows, UNIX, Mac, Linux			

Capacity (Native/Compressed)			
Capacity	LTO-3	LTO-4	LTO-5*
Min slots 10	4/8 TB	8/16 TB	16/32 TB
Max slots 50	20/40 TB	40/80 TB	80/160 TB

Throughput				
Drives	Native (MB/s)	Native (GB/hour)	Compressed (MB/s)	Compressed (GB/hour)
LTO-3 Full Height				
1	80	288	160	576
2	160	575	320	1,152
LTO-4 Full Height				
1	120	432	240	864
2	240	864	480	1,728
LTO-4 Half Height				
1	120	432	240	864
2	240	864	480	1,728
3	360	1,296	720	2,592
4	480	1,728	960	3,456
LTO-5 Full Height*				
1	180	648	360	1,296
2	360	1,296	720	2,592

*Support and technology enhancements are planned for future LTO generations. The expected release for LTO-5 is late 2009 with subsequent LTO drive releases approximately every three years (generations 6 through 8). Please refer to roadmap below for release timetables, capacity, and throughput estimations. Product generations and release dates are subject to change.

Spectra is committed to supporting all future releases of LTO technology



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