

SEVEN INCHES OF RACK SPACE

AIT DRIVE TECHNOLOGY

UP TO FOUR DRIVES

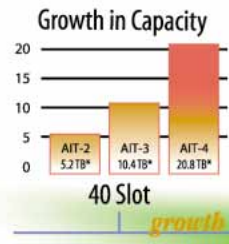
UP TO 40 AIT CARTRIDGES

LCD TOUCHSCREEN INTERFACE

EXTREMELY RELIABLE



*A proven performance leader for users ready to take the next step in storage automation*



*The Spectra 10000 library is available in either charcoal grey (above) or white/light grey (right). The library is easily mounted into a rack configuration for efficient data center operation and ease of use. Standard or telco rack styles may be used. The Spectra 10000 library may also be positioned on a desktop surface.*

**SPECTRA 10000 TAPE LIBRARY**

In only seven inches of rack space, the Spectra 10000 library offers a reliable, cost-effective and scalable tape storage solution for all data centers. The Spectra 10000 delivers exceptional capacity and throughput, without the large footprint and high cost of other tape libraries—ideal for fast, frequent backups of large networks, servers, VLDBs and data warehouses.

**BULLFROG™ ARCHITECTURE**

The Spectra 10000 uses BullFrog architecture developed by Spectra Logic. This architecture allows the library to be configured with 20 or 40 cartridges and up to four tape drives. It supports SCSI-2 (Single-ended, HVD and LVD) and Fibre Channel interfaces, making the Spectra 10000 a reliable and adaptable tape storage library for your growing data center.

**SONY® AIT TECHNOLOGY**

Spectra 10000 libraries feature Sony Advanced Intelligent Tape (AIT) drives and media. AIT provides users with a technological progression with a history of doubling capacity and transfer rates every two years.

**SCALABILITY AND SHARABILITY**

The patented Spectra 10000 design allows users to configure a library with 20 or 40 cartridges and up to four AIT drives. The library can be upgraded in the field by adding drives or slots to meet future growth requirements. Users can split a single

# Investment Protection—Now & Into the Future

Media as needed,  
Media is certified  
and bar-coded

Connectivity upgrades;  
start out with SCSI, upgrade to other  
interface technologies as needed

DAS | NAS | SAN

flexibility

connectivity

scalability

Upgrade in capacity and performance by adding  
additional drives and slots, upgrade drives  
as new technologies become available

As you add additional servers,  
each one can be connected to the Spectra 10000



Spectra 10000 Tape Library

Spectra 10000 library into two "logical" libraries, a feature that allows sharing of storage resources between different servers, operating systems and even software applications.

## GRAPHICAL USER INTERFACE

The Spectra 10000 library features an award-winning LCD touchscreen graphical user interface that provides access to status information, configuration parameters and diagnostics.

## INTERFACE TECHNOLOGIES

Storage Area Networks, Network Attached Storage and new SCSI variations are the foundations of today's new computing infrastructures. The Spectra 10000 tape library is available in SCSI-2 (Single-ended, HVD and LVD) and Fibre Channel (supporting private loop, public loop and fabric topologies). As interface technologies evolve, your Spectra 10000 can be upgraded, protecting your investment by offering you the potential to move forward with the industry.

## ROBOTICS

Spectra Logic's innovative fixed-carousel design is robust. A Digital Signal Processor (DSP) achieves extreme accuracy in positioning, without requiring the calibration needed for traditional analog servo systems.

Optical sensors and a "closed loop" design ensure that the Spectra 10000 library is constantly aware of the state and location of all cartridges, drives and robotics.

## RELIABILITY

The Spectra 10000 library has earned a solid reputation throughout the industry for reliability. Only two servo motors are required for moving cartridges. The robotics have been tested to exceed 1.5 million mean cycles between failure.

*The Spectra 10000 offers a very reliable storage solution in a small footprint for effective use of data center space. Removing the cover of this fully loaded library shows the fixed-carousel robotics system housing the cartridges and the location of the four drives.*

## ABOUT SPECTRA LOGIC

Spectra Logic has been designing and manufacturing leading edge storage peripherals for a wide range of computer applications since 1979. Our tape libraries deliver best-in-class performance, reliability, scalability and affordability. Spectra Logic provides data protection for customers worldwide with library products ranging in capacity from hundreds of gigabytes to hundreds of terabytes.





Spectra 10000 tape libraries are available in charcoal grey or white/light grey.

## Spectra 10000 Specifications

Capacity	AIT-2		AIT-3*		AIT-4*	
	Native	Compressed <sup>1</sup>	Native	Compressed <sup>1</sup>	Native	Compressed <sup>1</sup>
Cartridges						
20	1.0 TB	2.6 TB	2.0 TB	5.2 TB	4.0 TB	10.4 TB
40	2.0 TB	5.2 TB	4.0 TB	10.4 TB	8.0 TB	20.8 TB

Performance	AIT-2			AIT-3*			AIT-4*		
	Native	Compressed <sup>1</sup>	Hourly	Native	Compressed <sup>1</sup>	Hourly	Native	Compressed <sup>1</sup>	Hourly
Drives									
1	6.0 MB/sec	15.6 MB/sec	56.2 GB/hr	12.0 MB/sec	31.2 MB/sec	112.3 GB/hr	24.0 MB/sec	62.4 MB/sec	224.6 GB/hr
2	12.0 MB/sec	31.2 MB/sec	112.3 GB/hr	24.0 MB/sec	62.4 MB/sec	224.6 GB/hr	48.0 MB/sec	124.8 MB/sec	449.3 GB/hr
3	18.0 MB/sec	46.8 MB/sec	168.5 GB/hr	36.0 MB/sec	93.6 MB/sec	337.0 GB/hr	72.0 MB/sec	187.2 MB/sec	673.9 GB/hr
4	24.0 MB/sec	62.4 MB/sec	224.6 GB/hr	48.0 MB/sec	124.8 MB/sec	449.3 GB/hr	96.0 MB/sec	249.6 MB/sec	898.6 GB/hr

### Physical

Unit Dimensions: 7" H x 17" W x 28" D  
 Weight: 62 pounds (fully loaded)

### Power Requirements

Input Voltage: 110/220 VAC, 50/60 Hz  
 Power Consumption: 157 W maximum (1.5A @ 110 VAC, 0.75AC @ 220)  
 Average Robotic Access Time: < 10 seconds

### Tape Technology Migration Path

Generation	Drive Technology <sup>2</sup> *		Spectra 10000 Capacity <sup>1</sup>		Spectra 10000 Backup Rate <sup>1</sup>			
	Capacity	Transfer Rate	20 Cartridge	40 Cartridge	One Drive	Two Drive	Three Drive	Four Drive
AIT-2	130.0 GB	56.2 GB/hr	2.6 TB	5.2 TB	56.2 GB/hr	112.3 GB/hr	168.5 GB/hr	224.6 GB/hr
AIT-3*	260.0 GB	112.3 GB/hr	5.2 TB	10.4 TB	112.3 GB/hr	224.6 GB/hr	337.0 GB/hr	449.3 GB/hr
AIT-4*	520.0 GB	224.6 GB/hr	10.4 TB	20.8 TB	224.6 GB/hr	449.3 GB/hr	673.9 GB/hr	898.6 GB/hr
AIT-5*	1040.0 GB	449.3 GB/hr	20.8 TB	41.6 TB	449.3 GB/hr	898.6 GB/hr	1347.8 GB/hr	1797.1 GB/hr
AIT-6*	2080.0 GB	898.6 GB/hr	41.6 TB	83.2 TB	898.6 GB/hr	1797.1 GB/hr	2695.7 GB/hr	3594.2 GB/hr

## BullFrog Architecture Specifications

### Interface

SCSI (dual buses) - Single-ended, HVD and LVD\* (Single-ended requires the use of a 90 ohm, 3 foot SCSI cable for proper operation).  
 Fibre Channel - copper<sup>2</sup>, single-mode optical<sup>2</sup>, multi-mode optical<sup>2</sup> with support for private loop, public loop and fabric topologies.

### Software Compatibility

Spectra Logic's BullFrog architecture used in the Spectra 10000 tape library is supported by the industry's leading software packages on a wide variety of platforms. Visit the software partner section of our website for details.

### Reliability

Robotics: >1,500,000 MCBF (Mean Cycles Between Failure)

### Drive Technology Support

BullFrog architecture supports Sony AIT drive technology.

## Support

Spectra Logic offers many support options for the Spectra 10000 library. Coverage and response time can be structured to maximize your data center

operations and minimize your "total cost of ownership." Please visit our website or call to find out more information about our support options.

## Media and Racks



### Spectra Logic's Certified Media, Cartridge Packs and PackRacks™

Spectra Logic offers a wide selection of certified media, individually packaged and loaded into Cartridge Packs. Media are bar-coded with uniquely sequenced labels.

Purchasing your media in a Cartridge Pack is the easiest way to have media always available for your data center (no need to unwrap individual cartridges). Spectra Logic Cartridge Packs include a protective dust cover to protect your media from contamination during media rotation. Cartridge Packs are easily stored on a Spectra Logic PackRack which keeps media organized and accessible.

A PackRack holds four cartridge packs (60 cartridges maximum) and mounts to your data center wall. PackRacks are cascadable. You'll never lose track of your media.



Cartridge Packs easily snap into a PackRack.

**SPECTRA LOGIC**

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