












TAPE  
AUTOMATION

V-SERIES

## CAPACITY AND AVAILABILITY—WITH SPEED TO MATCH

-  *More than a decade of expertise in robotics design and manufacturing*
-  *Space efficient Libraries with more than 51TB per square meter*
-  *Choice of LTO or AIT tape technologies*
-  *Industry leading reliability at 3.8 million MSBF for Tape Libraries*
-  *Designed-in redundancy for maximum availability*
-  *Wide range of capacity points to fit all environments*
-  *Designed for ease of field upgradeability and serviceability*
-  *Backed by three-year warranty throughout the range to guarantee the highest level of protection*
-  *Supported by industry leading software applications and operating systems*

# SOLUTIONS FOR THE FUTURE

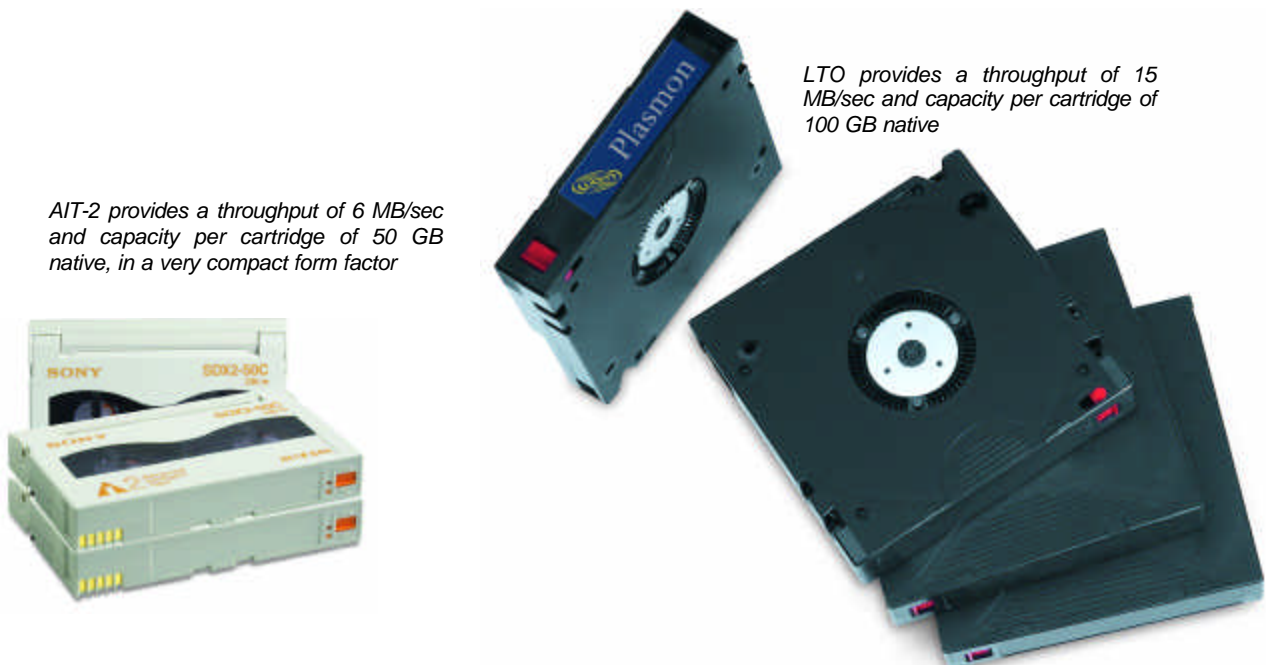
Plasmon has called upon its many year's experience in manufacturing industry leading optical archiving solutions, to develop a range of high performance, high capacity LTO and AIT tape archiving and backup solutions. These systems have been developed with performance, availability, ease of management and overall low cost of ownership as prerequisites. The V-Series from Plasmon addresses all of these issues and excels in its class.

## SCALABILITY, FLEXIBILITY

Plasmon has a solution to meet your evolving business needs. Plasmon's V-Series Tape Autoloaders and Libraries include a broad range of flexible configurations designed to protect your storage investment. In addition to a wide range of capacities to meet a company's specific storage requirements, Plasmon offers choices of LTO and AIT tape technologies for their Autoloaders. From smaller companies to large data centers, Plasmon provides solutions to fit into your environment, with the fastest, most floor space efficient libraries in their class.

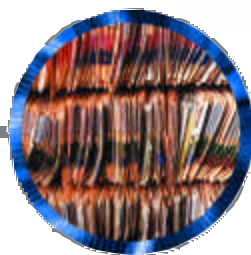
## AVAILABILITY, RELIABILITY

The top choice for reliability in 24x7 environments, Plasmon's V-Series integrates features to ensure high availability: redundant power supplies, remote management and the most reliable robotics on the market. Plasmon is dedicated to providing the highest level of reliability and availability in their Tape libraries.

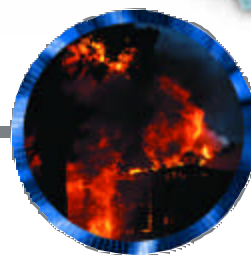


*AIT-2 provides a throughput of 6 MB/sec and capacity per cartridge of 50 GB native, in a very compact form factor*

*LTO provides a throughput of 15 MB/sec and capacity per cartridge of 100 GB native*



data archiving



disaster recovery



e-commerce

## LTO TAPE AUTOLOADERS AND LIBRARIES

Plasmon's V-Series LTO Autoloaders and Libraries are a complete range of tape automation architectures, integrating the latest generation of tape technologies to create the most advanced data storage and access solutions currently available.

From the Autoloader V10 (10 cartridges storing up to 2TB\* with one drive) to the V102 (102 cartridges storing up to 20.4TB\* with up to six drives), Plasmon offers the lowest cost per GB in the industry. Designed for ease of serviceability, Plasmon's V-Series can be configured to meet your current storage requirements and yet grow to meet your future storage needs by adding drives and cartridge slots on site.

The Plasmon V-Series offers unprecedented access speeds. With native throughput ranging from 54GB/hr to 324GB/hr, significant time savings in backup, restore and archival operations can be realized.

The LTO-Ultrium format features multi-channel bi-directional linear recording and ALDC dual mode compression algorithm providing up to 200GB of compressed\* data. To optimize the maximum performance capabilities of LTO-Ultrium, the efficient buffer management and effective data transfer rates of 30MB/Sec\*, along with SCSI or Fibre connectivity options create an exceptional offering to shrink tape processing operations and reduce the backup window.

Recognizing the increased introduction of automated tape architectures, the LTO-Ultrium format has been designed with ease of automation integration and operational levels to achieve 100% duty cycles. An electronic chip (LTO-CM) is embedded in each cartridge allowing historical usage, file location and other information to be read instantly, speeding up the process of tape loading.

\*assumes compression ratio of 2:1

## AIT TAPE AUTOLOADERS

Plasmon V-Series AIT Autoloaders are powerful tape automation solutions, combining robust architecture with the inherent advantages of AIT tape technology. A small footprint with high storage density, and rapid time-to-data, autoloaders meet the requirements of critical data storage applications. The V15 supports 15 cartridges, one or two drives, and offers 750GB native capacity at 43GB/hour throughput. The V30 supports 30 cartridges, one, two or four drives, and offers 1.5TB native capacity at 86GB/hour throughput. Both support an optional bar code reader, Ethernet connection for remote management, standalone or rack mount installation, and come with a 3-year advance exchange warranty.

AIT (Advanced Intelligent Tape) tape technology ensures the utmost in reliability to meet the rigorous demands of

unattended backup and high recall archive environments. In addition, AIT is suited to a wide range of applications, including image/multimedia storage and retrieval, real-time data acquisition, transportable storage, and storage management applications.

AIT-2 provides a throughput of 6 MB/sec (15 MB/sec with compression\*\*) and high capacity per cartridge at 50 GB (130 GB with compression\*\*) in a very compact form factor. High data search rates are achieved through the assistance of MIC technology -- the MIC chip contains key parameters such as a tape log, search map, and application information that allow flexible management of the media and its contents.

\*\*assumes compression ratio of 2.6:1



file back-up



finance



government



medical imaging



V68/102 LTO Library



V40/60 LTO Library

**PLASMON V-SERIES LTO LIBRARIES V40/V60 AND V68/V102**

For medium to large data volumes, Plasmon offers the V40/60 scalable from 40 to 60 slots and the V68/102 scalable from 68 to 102 slots. These Libraries meet evolving business needs, have the lowest cost per GB and set new levels of reliability assuring high availability. Bar code reader and remote monitoring are standard and provide efficient management of the library and media in your data center.



V10 LTO  
V15 AIT



V21 LTO  
V30 AIT

**SOFTWARE CONNECTIVITY**

For a complete list of compatible software solutions and vendors, visit: [www.plasmon.com/softwareguide](http://www.plasmon.com/softwareguide)

To become a Plasmon solutions or ISV partner, visit: [www.plasmon.com/isv](http://www.plasmon.com/isv) or call 720.873.2500

**V-SERIES LTO AND AIT TAPE AUTOLOADERS**

Plasmon's autoloaders provide smaller companies, remote corporate sites and branch offices, the availability and reliability in a backup solution for the lowest cost per GB while reducing backup and retrieval times. The Autoloader product line was designed in a compact size for volumetric efficiency.



science & research



telecommunications



## TECHNICAL SPECIFICATIONS

V-Series	V10 LTO	V21 LTO	V15 AIT	V30 AIT	V40 LTO	V60 LTO	V68 LTO	V102 LTO
Number of Drives	1	1 or 2	1 or 2	1, 2 or 4	Up to 4	Up to 4	Up to 6	Up to 6
Number of Cartridges	10	21	15	30	40	60	68	102
Max. Storage Capacity(native)	1TB	2.1TB	750 GB	1.5 TB	4TB	6TB	6.8TB	10.2TB
Max. Data Throughput (native)	54GB/hr	108GB/hr	43.2GB/hr	86.4GB/hr	216GB/hr	216GB/hr	324GB/hr	324GB/hr
Media Move Time (sec.)	<10	<10	<10	<10	<7	<7	<7	<7
Reliability (MSBF)	>500,000	>500,000	>500,000	>500,000	>3,800,000	>3,800,000	>3,800,000	>3,800,000
Remote Monitoring	Optional	Optional	Optional	Optional	Standard <sup>1</sup>	Standard <sup>1</sup>	Standard <sup>1</sup>	Standard <sup>1</sup>
Redundant Power Supply	No	No	No	No	Optional	Optional	Optional	Optional
Bar Code Reader	Optional	Optional	Optional	Optional	Standard	Standard	Standard	Standard
Single Cartridge Mailbox	No	Yes	No	Yes	No	No	Yes	Yes
Bulk Load Magazine	7 cartridge	7 cartridge	10 cartridge	10 cartridge	5 cartridge	5 cartridge	5 cartridge	5 cartridge
Standard Warranty	3 yr, exp. exch.	3 yr, exp. exch.	3 yr, exp. exch.	3 yr, exp. exch.	3 yr, 1st yr on-site	3 yr, 1st yr on-site	3 yr, 1st yr on-site	3 yr, 1st yr on-site
<b>Dimensions - Standalone</b>								
Height (in)/(cm)	8.8in / 22.4cm	8.8in / 22.4cm	8.8in / 22.4cm	8.8in / 22.4cm	33.5in / 85.1cm	33.5in / 85.1cm	46.7in / 118.6cm	46.7in / 118.6cm
Width (in)/(cm)	8.7in / 22.1cm	17.6in/44.7cm	8.7in / 22.1cm	17.6in/44.7cm	18.9in / 48cm	18.9in / 48cm	18.9in / 48cm	18.9in / 48cm
Depth (in)/(cm)	24.5in/62.2cm	24.5in/62.2cm	24.5in/62.2cm	24.5in/62.2cm	32.6in / 82.8cm	32.6in / 82.8cm	32.6in / 82.8cm	32.6in / 82.8cm
Net Weight (lbs)/(kg) 2	46.6lbs / 21.1kg	85.2lbs / 38.6kg	44lbs / 19.9kg	73lbs / 33.1kg	293.9lbs / 133.6kg	305.9lbs / 139kg	410.9lbs / 186.8kg	446.9lbs / 203.1kg
<b>Dimensions - Rack</b>								
Rack Units	5U	5U	5U	5U	19U	19U	26U	26U
Height (in)/(cm)	8.8in / 22.4cm	8.8in / 22.4cm	8.8in / 22.4cm	8.8in / 22.4cm	30.1in / 76.5cm	30.1in / 76.5cm	43.3in / 110cm	43.3in / 110cm
Width (in)/(cm)	8.7in / 22.1cm	17.6in/44.7cm	8.7in / 22.1cm	17.6in/44.7cm	17.6in / 44.7cm	17.6in / 44.7cm	17.6in / 44.7cm	17.6in / 44.7cm
Depth (in)/(cm)	24.5in/62.2cm	24.5in/62.2cm	24.5in/62.2cm	24.5in/62.2cm	30in / 76.2cm	30in / 76.2cm	31.8in / 80.8cm	31.8in / 80.8cm
Net Weight (lbs)/(kg) 2	46.6lbs / 21.1kg	85.2lbs / 38.6kg	44lbs / 19.9kg	73lbs / 33.1kg	301.4lbs / 137kg	314.4lbs / 142.9kg	420.9lbs / 191.3kg	456.9lbs / 207.7kg
<b>Shipping Dimensions</b>								
Height (in)/(cm)	15.6in / 40cm	21.5in / 55cm	15.6in / 40cm	21.5in / 55cm	47.3in / 120.2cm	47.3in / 120.2cm	59.4in / 151cm	59.4in / 151cm
Width (in)/(cm)	14.8in / 38cm	30in / 77cm	14.8in / 38cm	30in / 77cm	28.5in / 72.4cm	28.5in / 72.4cm	28.5in / 72.4cm	28.5in / 72.4cm
Depth (in)/(cm)	35.9in / 92cm	30in / 77cm	35.9in / 92cm	30in / 77cm	46.5in / 118.1cm	46.5in / 118.1cm	46.5in / 118.1cm	46.5in / 118.1cm
Shipping Weight (lbs)/(kg) 2	63.6lbs / 28.9kg	105.2lbs / 47.8kg	64lbs / 29.1kg	93lbs / 42.3kg	363lbs / 165kg	375lbs / 170.5kg	466.6lbs / 212.1kg	485.9lbs / 220.9kg
<b>Environmental Characteristics</b>								
Temperature (F)/(C)	50-90 F / 10-32.2 C	50-90 F / 10-32.2 C	50-90 F / 10-32.2 C	50-90 F / 10-32.2 C	50-90 F / 10-32.2 C	50-90 F / 10-32.2 C	50-90 F / 10-32.2 C	50-90 F / 10-32.2 C
Humidity	20% to 80%	20% to 80%	20% to 80%	20% to 80%	20% to 80%	20% to 80%	20% to 80%	20% to 80%
Power Consumption	75 Watts Avg.	110 Watts Avg.	75 Watts Avg.	110 Watts Avg.	420 Watts Avg.	420 Watts Avg.	420 Watts Avg.	420 Watts Avg.
Operating Voltage	100-120/200-240	100-120/200-240	100-120/200-240	100-120/200-240	100-240	100-240	100-240	100-240
Operating Frequency	50-60hz	50-60hz	50-60hz	50-60hz	50-60hz	50-60hz	50-60hz	50-60hz
<b>Drive Characteristics</b>								
Drive Type	LTO Ultrium 1	Sony AIT-2						
Cartridge Capacity (native)	100GB	50GB						
Sustained Transfer Rate (native)	15MB/s	6MB/sec						
Compression Algorithm	ALDC	ALDC						
Compression Ratio	2 to 1	2.6 to 1						
<b>Library/Drive Interface</b>	LVD/SE (auto-sensing) SCSI 2 and SCSI 3 Compliant 68-pin High Density Female Connector							
<b>ISV Support:</b>	See <a href="http://www.plasmon.com/softwareguide">www.plasmon.com/softwareguide</a> for the most current list							
<b>Certifications</b>	Safety: UL 1950, cUL950, EN60950, IEC950 Emissions: FCC Class A, CISPR 22 Class A, EN55022 Class A Immunity: EN55024, EN61000-3-2, EN61000-3-3 V10, V15, V21, V30 -- Class 1 Laser IEC60825-1:1993+A1 CE Compliant							



Plasmon's Family of Tape Libraries  
**Plasmon is ISO 9001 certified**

\*Specifications subject to change without notice -  
1)New product, Contact Plasmon for availability. - 2)Weights include maximum drives and media installed.



Plasmon, Inc.  
U.S. Sales & Marketing Headquarters  
400 Inverness Drive South  
Englewood, CO 80112  
Tel: 800-451-6845  
Fax: 720-873-2501  
sales@plasmon.com  
www.plasmon.com

Plasmon Data Ltd.  
European Sales & Marketing Headquarters  
Whiting Way, Melbourn  
Hertfordshire, SG8 6EN  
Tel: +44 (0) 1763 262963  
Fax: +44 (0) 1763 264444  
sales@plasmon.co.uk  
www.plasmon.co.uk

Plasmon, Inc.  
Manufacturing Headquarters  
4425 ArrowsWest Drive  
Colorado Springs, CO 80907  
Tel: 719-593-7900  
Fax: 719-593-4597  
sales@plasmon.com  
www.plasmon.com

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