



Plasmon



DVD AUTOMATION

D-SERIES

THE LEADER IN PROFESSIONAL DATA ARCHIVAL SOLUTIONS

INDUSTRY LEADING SCALABILITY

Long-term storage of digital information is critical, if not mandatory, in today's business environment. Applications such as records, image, and e-mail archiving are driving storage requirements from gigabytes to multiple terabytes. Plasmon automated DVD libraries deliver permanent and rewritable DVD storage in the most scalable product family in the industry.

ULTIMATE FLEXIBILITY

Plasmon recognises that one size does not fit all, nor does one media type. In response to this, Plasmon has produced the most flexible family of DVD automation in the industry by incorporating a scalable design along with Multi Drive technology. The latest generation of DVD Multi Drives support reading and writing of DVD-RAM, DVD-R, DVD-RW, CD-R and CD-RW in a single drive. That means no more complicated drive configurations for mixed media libraries. All D-Series libraries come standard with auto-calibration for greater availability and auto-sensing SCSI LVD interfaces for more flexible configurations and increased cable lengths. This high degree of flexibility offers applications such as medical imaging, record archiving, e-mail archiving, digital pre-press, and document archiving one product family to solve their long-term data storage requirements.

SUPERIOR VALUE

For more than a decade, Plasmon has emphasised the value of archival storage and built world-class automation to protect the customer's information assets. Plasmon automated data storage libraries have cost effective features such as patented double-picker robotics, patented Rotation Station™ for supporting double-sided 9.4GB DVD media and minimal "footprint" for minimising floor space. This means Plasmon customers receive the widest range and most cost-effective optical storage solutions available.



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ENTERPRISE D-SERIES LIBRARIES

Available in three models: D875, D1525 and the D2175, Enterprise D libraries provide slot counts ranging from 750 to 2175 discs and capacities from 7TB to more than 20TB. Enterprise D libraries are among the largest capacity and cost-effective DVD libraries in the world, with space efficiency at nearly 2 terabytes per square foot of floor space.

ENTERPRISE D-SERIES DVD

Plasmon's Enterprise D-Series libraries are the highest capacity professional DVD solutions in the industry, delivering confidence in reliability through simplicity in design. Enterprise D sets the standard in value by becoming the most cost-effective DVD solution for enterprise level applications.

Depending on drive configurations, Enterprise D libraries enable up to 12 Multi Drives supporting DVD-RAM, DVD-R, DVD-RW, CD-R and CD-RW, balancing performance with flexibility. Maximum capacities and densities are achieved through the use of Plasmon's patented Rotation Station™ and tray-based media utilising double-sided 9.4GB media.

The Enterprise D can have up to 3 LVD SCSI bus's with 4 drives per bus to optimise throughput

Enterprise D provides performance, reliability and scalability through its proven design. By leveraging the high performance design of Plasmon's G-Series Magneto Optical (MO) libraries, Enterprise D utilises the most durable robotics for enterprise sized DVD libraries in the industry. The patented dual-picker in Enterprise D is also available in the popular Plasmon D-Series product family. True scalability comes from the use of a base unit and up to two 650-slot expansion modules. Combined with auto-calibration, each expansion module is installed in minutes, not hours.

SOFTWARE CONNECTIVITY

For a complete list of compatible software solutions and vendors, visit:
<http://www.plasmon.co.uk/softwareguide/index.html>



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D-SERIES DVD

Plasmon's D-Series libraries are the most flexible and economical libraries in the industry. Utilising the latest Multi Drive technology, the D-Series allows mixing of media to suit most archiving applications and user storage requirements.

Each Plasmon D-Series library comes standard with Multi Drives for optimum flexibility and performance. Each Multi Drive supports reading and writing of DVD-RAM, DVD-R, DVD-RW, CD-R and CD-RW media. DVD-R offers Write-Once-Read-Many (WORM) protection along with 9.4GB capacities and high throughput. DVD-RAM is rewritable and also supports double-sided 9.4GB media. Each model is equipped with a patented dual-picker for faster disc exchanges and an LVD SCSI interface for longer cable connections. Single LVD SCSI interface is provided as standard with an optional second LVD bus available.

D-SERIES LIBRARIES

Available in three models: D120, D240 and the D480, D-Series libraries provide slot counts from 80-480, 4-6 drives and capacities from 564GB to 4.1TB. Each library is also available with Plasmon's patented Rotation Station™ for use with 9.4GB double-sided media.



MEDIA

Media are placed on trays inside 10-disc magazines for maximum protection and the highest possible media density. Plasmon supplied media are packaged in a "clean room" and quality inspected to insure no visible defects. Trays are captured by the dual-picker for movement inside the library so the picker never touches the media. A single media mail-slot is used for import/export of media from the D-Series libraries and a ten disc magazine is used in the Enterprise D.



education











internet services



VALUE, FLEXIBILITY, AND SCALABILITY

ECONOMICAL NEAR-LINE DATA STORAGE FOR ARCHIVE APPLICATIONS AND DATA PROTECTION

-  ***Economical nearline data storage for archive applications and data protection.***
-  ***Multi Drives read and write DVD-R, DVD-RAM, DVD-RW, CD-R, and CD-RW formats in a single drive.***
-  ***Industry leading scalability supports capacities from 564GB to over 20TB and up to twelve Multi Drives.***
-  ***Dual-picker technology results in faster disc access.***
-  ***SCSI LVD interfaces are standard allowing for flexible configurations and extended cable lengths.***
-  ***Magazines and drives are accessible via the front door for faster service.***
-  ***Libraries are self-configuring and feature automatic alignment of robotics for greater reliability.***
-  ***Tray based media means maximum capacities with minimum floor space.***

TECHNICAL SPECIFICATIONS – DVD/CD JUKEBOXES

	D-Series			Enterprise D-Series		
Model	D120	D240	D480	D875	D1525	D2175
Capacity*	564GB-1.12TB	1.13TB-2.25TB	2.25TB-4.51TB	7.05TB-8.22TB	13.1TB-14.3TB	19.2TB-20.4TB
Number of Slots (Max)*	80-120	200-240	440-480	750 – 875	1400 – 1525	2050 - 2175
Number of Drives (Max)	4	6	6	12	12	12
Library Reliability (MSBF)	>2,500,000	>2,500,000	>2,500,000	>2,500,000	>2,500,000	>2,500,000
Robotics Average Access Time (Sec)**	3	3	3	6.3	6.3	6.3
Rotation Station™	Optional	Optional	Optional	Included	Included	Included
Picker Type	Dual	Dual	Dual	Dual	Dual	Dual
Import/Export Mail Slot	Single	Single	Single	1 10-slot magazine	1 10-slot magazine	1 10-slot magazine
Removable Storage Slots	8-10-slot magazines	20-24 slot magazines	44-48 slot magazines	5 10-slot magazines	5 10-slot magazines	5 10-slot magazines
Warranty***	1 year	1 year	1 year	1 year	1 year	1 year

Library Interface LVD (Auto sensing, SCSI2 and SCSI 3 Compliant 68-pin High Density Female Connector)

Dimensions and Weight – Standalone

Height (cm)	82.5	86.4	137.2	172.3	172.3	172.3
Width (cm)	25.4	50.8	50.8	69.1	86.9	105
Depth (cm)	68.6	67.3	67.3	91.4	91.4	91.4
Net Weight (Kg)	50	68	82	223	287	350

Shipping Dimensions and Weight

					Expansion Module (1x)	Expansion Module (2x)
Shipping Height (cm)	115	120	172	193	184.2	184.2
Shipping Width (cm)	53.3	71.1	71.1	124.5	86.3	86.3
Shipping Depth (cm)	90.1	97.2	97.2	94	89	89
Shipping Weight (Kg)	64	100	151	259	84	147.2

Environmental Characteristics

Operating Temperature(°C)	+10 to 40	+10 to 40	+10 to 40	+10 to 32	+10 to 32	+10 to 32
Operating Humidity (non-condensing)	10 to 80%	10 to 80%	10 to 80%	10 to 90%	10 to 90%	10 to 90%
Non-Operating Temperature (°C)	-40 to +70	-40 to +70	-40 to +70	-40 to +70	-40 to +70	-40 to +70
Operating Voltage (VAC auto ranging power supply)	100 to 240	100 to 240	100 to 240	100 to 240	100 to 240	100 to 240
Operating Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Consumption (Typical)	60W	75-100W	75-100W	322W (max)	322W (max)	322W (max)
Power Consumption (2 drives)	-	-	-	145W/495Btu/hr	145W/495Btu/hr	145W/495Btu/hr
Power Requirements				6A / 350W	6A / 350W	6A / 350W

Certifications

SafetyUL Standard 1950, 2nd Edition: 1995 Safety of Information Technology Equipment
EmissionCSA Standard C22.2 No. 950-95, Safety of Information Technology Equipment
EN 60950: 1992 +A1 +A2 +A3 +A4 +A11 Safety of Information Technology Equipment **CE**

- * Depending on configuration
- ** Average robotics movement and media exchange combined.
- *** First year on-site (3 day on-site etc)

Multi Drive Characteristics

Model Number	DVD9571D
Interface	SCSI using ATAPI / SCSI converter
Capacity	4.7GB / 9.4GB DVD-RAM (rewritable) 2.6GB / 5.2GB DVD-RAM (rewritable) 4.7GB DVD-R for General Use (write-once) 4.7GB DVD-RW (rewritable) Ver. 1.1 CD-R (write-once) CD-RW (rewritable)

Write Compatibility

4.7GB DVD-RAM, 4.7GB DVD-R (for General ver 2.0), 4.7GB DVD-RW (ver 1.1), CD-R, CD-RW, CD-DA¹, CD-ROM/XA, Photo CD, Video CD, CD-Extra, CD-R^{2,3}

Read Compatibility

CD-RW^{2,3}, DVD-ROM, DVD-R^{2,3}, DVD-RW², DVD-Video, DVD-RAM (4.7GB, 2.6GB)

- 1 CD-G not supported.
- 2 Playback of DVD R, CD-R and CD-RW may not be fully performed depending on the writing conditions of the disc.
- 3 Support Multi-Read for CD-R and CD-RW.

Read Data Transfer Rate per sec.

4.7GB DVD-RAM:	2.77MB (2X)
2.6GB DVD-RAM:	1.38MB (1X)
4.7GB DVD-R:	8.31MB (max X 6)
4.7GB DVD-RW:	8.31MB (max X 6)
CD-R:	1.52MB - 4.80MB (max X 32)
CD-RW:	1.52MB - 3.60MB (max X 24)
DVD-ROM:	3.44MB - 16.22MB (max X 12)
CD-ROM:	1.52MB - 4.80MB (max X 32)

Write Data Transfer Rate per second

4.7GB DVD-RAM:	2.77MB (without verifying) 1.38 MB (verifying)
4.7GB DVD-R:	2.77MB (without verifying)
4.7GB DVD-RW:	1.38MB (without verifying)
CD-R:	max 1.80MB (without verifying)
CD-RW:	max 1.20MB (without verifying)



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