

# G-SERIES

5.25 INCH OPTICAL LIBRARIES POWERED BY UDO™

*Plasmon G-Series 5.25 inch optical libraries – the market leaders for professional archive storage*

POWERED BY  
**UDO**  
ULTRA DENSITY OPTICAL



## G-SERIES

Plasmon G-Series 5.25 inch optical libraries are the market-leading solution for professional archival storage. They feature the industry's most reliable architecture and highest data availability, and support multiple optical media to minimize the cost and frequency of media migration. Support for both 30GB UDO™ (Ultra Density Optical) and 9.1GB MO (Magneto Optical) storage technologies provides a backward-compatible archive platform built for the future. G-Series libraries include state-of-the-art features like dual pickers, hot/warm swappable drives, and redundant power supplies; and are available in a broad range of configurations to fit virtually any customer requirement. Models range from 24 to 638 slots, with fully populated UDO capacities ranging from 720GB to almost 20TB.

## POWERED BY UDO

G-Series libraries feature UDO drives and media. The new standard in professional optical storage, blue laser-based UDO provides dramatically greater capacity than previous generation optical solutions, resulting in a particularly low Total Cost of Ownership. It also delivers true Write Once data integrity, using Phase Change technology that permanently alters the media recording material. 30GB UDO cartridges are available with both true Write Once and Rewritable media. A future roadmap delivers larger capacities up to 120GB.



## AN ARCHIVAL SOLUTION FOR EVERY NEED

**ENTRY LEVEL G-SERIES LIBRARIES**  
Professional archive libraries in a compact chassis with 1 or 2 drives, 24 or 32 disk slots, and storage capacities from 720GB to just under 1TB. Available stand-alone or with 19-inch rack mount kits.

**MIDRANGE G-SERIES LIBRARIES**  
Solid, dependable optical archives with 2 or 4 drives, 72 to 104 slots and storage capacities from 2.1TB to 3.1TB. Available stand-alone or with 19-inch rack mount kits.

**ENTERPRISE G-SERIES LIBRARIES**  
Providing the ultimate in capacity, scalability and reliability. Available with up to 12 drives, and field upgradable from 164 to 638 slots with capacities from 4.9TB to almost 20TB.

**G-SERIES FOR IBM® OS/400™**  
G-Series Powered by UDO libraries are also available for IBM OS/400 users. (see G-Series for IBM OS/400 datasheet, available at:

<http://www.plasmon.com/products/pdflibrary.html>

FEATURES	BENEFITS
30GB UDO drive support	Highest capacity, fastest optical drive in the industry
Mixed MO and UDO support	Flexibility, investment protection, longevity
Dual Picker	Fastest access times
Auto-Calibration	Increased uptime, greater reliability
Bar Code Scanner	Greater security, offline media management, fast media inventory
Industry-leading durability and reliability	24x7x365 uptime
<b>ENTERPRISE G-SERIES ONLY</b>	
10-slot Bulk Magazine	Faster loading and unloading
Scalability using expansion modules	Investment protection, cost-effective
Hot Swappable Drives	Increased uptime
Redundant Power Supplies	Increased uptime
Multiple Bus Configurations	Increased performance and drive counts (up to 12)

# TECHNICAL SPECIFICATIONS— G-SERIES 5.25 INCH OPTICAL LIBRARIES POWERED BY UDO™

	G-Series (Entry level)		G-Series (Midrange)		G-Series (Enterprise)		
Model	Gx24/Gx32	Gx80	G104	G164	G238	G438	G638
Number of Slots	24 / 32	72 / 80	104	164	238	438	638
Capacity (9.1GB Magneto Optical)	218GB / 291GB	655GB / 728GB	946GB	1.5TB	2.2TB	4TB	5.8TB
Capacity (30GB UDO)	720GB / 960GB	2.2TB / 2.4TB	3.1TB	4.9TB	7.1TB	13.1TB	19.1TB
Number of Drives	1 or 2	2 or 4	2 or 4	2, 4, 6, 8, 10 or 12	2, 4, 6, 8, 10 or 12	2, 4, 6, 8, 10 or 12	2, 4, 6, 8, 10 or 12
Library Reliability (MSBF)	2,000,000	2,000,000	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000
Robotics Ave. Exchange Time (Sec)*	6.1	6.1	6.1	6.1	6.2	6.3	6.4
Picker Type	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Import/Export Mail Slot	Single	Single	Single	Single	Single	Single	Single
Bulk Load	--	--	--	10-disk	10-disk	10-disk	10-disk
Warranty**	1 year	1 year	1 year	1 year	1 year	1 year	1 year
Power Requirements (max Amps / watts)	3A/150W	3.5A/195W / 3A/150W	3A/210W	6A/430W	6A/430W	6A/430W	6A/430W
Heat Dissipation (BTU/hr)	512	658/520	715	1459	1459	1459	1459
Options	Bar Code, Rack Mount, HVD Interface	Bar Code, Rack Mount, HVD Interface	Bar Code, Rack Mount, HVD Interface	Bar Code, Red. Power, 2 or 3 buses, HVD Interface	Bar Code, Red. Power, 2 or 3 buses, HVD Interface	Bar Code, Red. Power, 2 or 3 buses, HVD Interface	Bar Code, Red. Power, 2 or 3 buses, HVD Interface
G-Series Library Interface	LVD (Auto-Sensing), SCSI 2 and SCSI 3 compliant 68-pin high density female connector						
<b>Dimensions and Weight-Standalone</b>							
Height (in)/(cm)	30.5 / 77.5	30.5 / 77.5	46 / 116.8	68 / 172.3	68 / 172.3	68 / 172.3	68 / 172.3
Width (in)/(cm)	11.1 / 28.8	17.5 / 44.5	18.9 / 48	27.2 / 69.1	27.2 / 69.1	34.2 / 86.9	41.2 / 105
Depth (in)/(cm)	31.2 / 79.2	31.2 / 79.2	32.6 / 82.8	36 / 91.4	36 / 91.4	36 / 91.4	36 / 91.4
Net Weight (lbs)/(Kg)	95 / 43	125 / 57	241.0 / 109.0	491 / 223	491 / 223	631 / 287	771 / 350
<b>Shipping Dimensions and Weight</b>						Expansion Module (1x or 2x)	
Shipping Height (in)/(cm)	43 / 104.1	43 / 104.1	60 / 152.4	76 / 193	76 / 193	72.5 / 184.2	
Shipping Width (in)/(cm)	23.5 / 59.7	23.5 / 59.7	47 / 119.4	49 / 124.5	49 / 124.5	33.8 / 85.9	
Shipping Depth (in)/(cm)	36.5 / 92.7	36.5 / 92.7	29 / 73.7	37 / 94	37 / 94	33.8 / 85.9	
Shipping Weight (lbs)/(Kg)	140 / 64	175 / 80	349 / 158	571 / 259	571 / 259	185 / 84	
<b>Environmental Characteristics</b>			<b>Library Certifications</b>		<b>UDO Certifications</b>		
Operating Temperature (F)/(C)	50° to 90° F / 10° to 32° C		Safety: UL 1950, cUL950, EN60950, IEC950		Safety: UL 60950-1:2003/CSA C22.2 No. 60950-1-03/EN 60950-1:2001/EN 60825-1/A2:2001/DHHS Title 21 CFR, Chapter 1, Sub-Chapter J/Canadian REDR C1370/Class 1 Laser Product		
Operating Humidity (non-condensing)	10 to 90% RM (non-condensing)		Emission: FCC Class A, CISPR 22 Class A, EN55022 Class A		Emission: FCC CFR 47, Part 15, Subpart B, Class B/Canadian ICES-003, Class B EN 55011/A2:2002 Class B, EN 55022/A2:2003 Class B EN 61000-3-2:2000, with EN 61000-4-7:2002/EN 61000-3-3/A1:2001		
Non-Operating Temperature (F)/(C)	-22° to 140° F / -30° to 60° C		Immunity: EN 55024/A2:2003		Immunity: EN 55024/A2:2003		
Operating Voltage	100 to 240 VAC (Auto ranging power supply)						
Operating Frequency	50 / 60 Hz						
<b>Drive Characteristics</b>			Plasmon 5.25 inch 30GB UDO™ (Ultra Density Optical)		Sony 5.25 inch 9.1GB (14x) Magneto Optical (MO)		
Maximum Sustained Read Transfer Rate	8MB/sec				6.1MB/sec		
Maximum Sustained Write Transfer Rate	4MB/sec (with verification)				3MB/sec (with verification)		
Media Compatibility	Capacity 30GB (8192 bytes/sector), Read / Write				9.1GB, 8.6GB, 5.2GB, 4.8GB, 4.1GB, 2.6GB, 2.3GB, 1.3GB, 1.2GB, 650MB, 600MB		
<b>Software Vendor Support</b>	Visit <a href="http://www.plasmon.com/softwareguide">www.plasmon.com/softwareguide</a>						

\* Average robotics movement and media exchange combined. Does not include drive load, spin and seek times.

\*\* First year on-site 5x9xNext Business Day

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Plasmon's Family of 5.25 inch Optical Libraries  
**Plasmon is ISO 9001 certified**



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