



NSM Series
Modular CD and DVD Storage Libraries

NSM Series libraries architecture incorporates multiple CD and DVD technologies to offer secondary, random access storage and archive. Each model combines fast read and write access with optimal media handling to provide solutions for an unlimited range of data capacity requirements. NSM Series libraries are reliable solutions for companies needing an affordable way to archive and quickly retrieve and distribute substantial amounts of data across their network to many

users. DISC's advanced high-speed robotics and automation enhanced drive technologies assure that system performance and reliability are second to none. No other data storage system or technique provides this combination of capacity, security and flexibility while providing the permanence and longevity for data being written to and read from optical media.

The flexibility of the NSM Series libraries gives users the ability to configure each library to meet the specific requirements of their application. Components such as drives, media magazines and CapacityDoubler™ can be exchanged with one another to balance capacity and performance.



NSM7000/7000U

The NSM7000 delivers fast access to over 6TB of data. Up to 14 drives can be installed to provide high performance multi-user access to data. NSM7000 offers DISC's highest capacity in a small footprint.

Modular design architecture
Up to 6.48 TB
705 slots max.
1 to 14 drives
Multiple SCSI-2 single ended or LVD internal busses.
Optional Fibre Channel or Ethernet connections to SAN or NAS

NSM4000/4000U

NSM4000 offers the same features and performance as NSM7000 but with fewer slots and drives. Up to 7 drives and 415 pieces of media make the NSM4000 an ideal solution for high-capacity data storage.

Modular design architecture
Up to 3.7 TB
415 slots max.
1 to 7 drives
Multiple SCSI-2 single ended or LVD internal busses.
Optional Fibre Channel or Ethernet connections to SAN or NAS

NSM3000/3000U

The NSM3000 provides a mid-range capacity, high performance storage solution in a smaller form factor. Up to 2.6 terabytes of data can be stored and quickly accessed. Up to 6 drives can be installed and DISC Intelligent Pack Technology allows unlimited off-line storage.

Modular design architecture
Up to 2.6 TB
285 slots max.
1 to 6 drives
Multiple SCSI-2 single ended or LVD internal busses.
Optional Fibre Channel or Ethernet connections to SAN or NAS

The NSM-U Series models allow users to multiply storage capacity up to four times using the existing chassis. Modular design architecture allows for scaleable drive and media slot counts, giving users a maximum of 6.48TBs of capacity.

Six Models, One Technology

The NSM Series offers NearLine storage and access up to 6.48TB of data.

The common family architecture for NSM Series models.



Drives	
DVD-ROM	
Data Transfer Rate	DVD: 22.1 MB/s CD: 6 MB/s
Access Time	DVD: 120ms CD: 90ms
DVD-RAM	
Data Transfer Rate	1.38 MB/s write with verify 2.7 MB/s read
Access Time	210 ms
Multi-Function Recorder Drive	
Data Transfer Rates	Multi-Drive DVD-R 2X: 2.7MB/s DVD-RAM 2X: 2.7MB/s CD-R 12X: 1.8MB/s DVD-ROM: 6.5 – 15.8 MB/s
Access Time	110 ms
Multi-Function Player Drive	
Data Transfer Rates	DVD-ROM/R: 9.0 – 22MB/s DVD-RAM: 2.7MB/s CD-ROM/R: 7.2MB/s
Access Time	120ms
Reliability	
Robotic MSBF	2,500,000 cycles
Electronic MTBF	60,000 power on hours
Drive MLBF	250,000 cycles
System	
Mailslot	Standard
Operator Panel	Standard, 16 key 32 character display
Media Handling	No-touch tray technology
Pack Capacity	15 pieces of media

Features:

- Modular design for flexibility
- Ruggedized architecture
- CapacityDoubler™ available for double-sided media
- Intelligent Pack Technology
- U Series models available for field upgradability
- CD, DVD-ROM, DVD-R and DVD-RAM technologies
- Built in Diagnostics
- Intuitive user interface with password protected security scheme
- Rackmount options available
- Auto sensing power supply
- Multiple SCSI busses, with SCSI-2 or optional LVD Fibre Channel and ethernet interfaces



Reliability:

- Lab tested and field proven dependability
- Media lifetime exceeds 30 years
- No touch tray technology
- Automation enhanced drives

Options Available:

- NAS
- High-Availability NAS
- SAN
- Rackmount

Typical examples for applications:

- Document image management
- Legal and medical records
- Banking/finance transaction records
- Security/Video Surveillance Archives
- Photo and image archives
- Graphics and Multimedia images
- E-mail, Internet and Intranet Data



NSM Series

Specific technical data

Model	NSM3000(U)	NSM4000(U)	NSM7000(U)
Number of media slots*	145 to 285	260 to 415	510 to 705
Number of drives	1 to 6	1 to 7	1 to 14
Capacity	101GB to 2.54TB	182GB to 3.76TB	357GB to 6.48TB
Media Exchange Time	3 sec avg.	4 sec avg.	6 sec avg.
Intelligent Pack Technology	3 removable packs	4 removable packs	4 removable packs
CapacityDoubler™	Optional	Optional	Optional
System			
Data Interface	Single/dual SCSI-2, LVD optional	Single/dual SCSI-2, LVD optional	Dual/triple SCSI-2, LVD optional
Robotics Control Interface	RS 232, SCSI-2 switch	RS 232, SCSI-2 switch	RS 232, SCSI-2 switch
Weight	54kg (120lb)	62kg (137lb)	108kg (240lb)
Width	365/487mm (14.4/19.2 in.)	365/621mm (14.4/24.4 in.)	365/833mm (14.4/32.8 in.)
Height	778mm (30.6 in.)	980mm (38.6 in.)	1500mm (59 in.)
Depth	655mm (25.8in.)	655mm (25.8in.)	655mm (25.8in.)

*Depending on # of drives installed

Warranty:

All NSM Series models come with a comprehensive worldwide limited warranty with additional support options available. Off-site troubleshooting is made easy through built-in diagnostics.

Software Support:

DISC libraries are compatible with major network environments such as*:

Apple Macintosh	Linux
Compaq Tru64	Microsoft Windows NT/2000
HP-UX	Novell NetWare
IBM-AIX	SGI Irix
IBM OS/2	SUN Solaris

* Device drivers and application software required.

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