



**DISC1000**  
**DISC3000**  
**DISC4000**  
**DISC7000**

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# **User Manual**

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## **Chapter 1: Copyrights Trademarks and Contact Information 6**

Notice of Copyright 8

Changes 8

Trademarks Used in this Manual 9

Contacting DISC 9

International 9

Internet 9

Mailing Address 9

Sales 9

Technical Support 9

## **Chapter 2: Safety Instructions 13**

Intended Use 15

Use of Interjective Terms 15

Ban on Arbitrary Reversions and Changes 15

Repairs 15

Fire and Shock Hazard 16

Opening the Unit 16

Safety 16

Data Security 16

Electromagnetic Compatibility 17

Fuses 17

Professional Disc Media 17

## **Chapter 3: Overview 19**

DISC1000 Components 21

DISC3000 Components 22

DISC4000 Components 23

DISC7000 Components 24

Installed Equipment 25

Structure of Model Designation 25

DISCx000 -AA-XXX M 25

Example of Model Designation 26

DISC3000 -4-225 RM 26

DISCx000 Front 26

Keyboard 27

LCD 27

DISCx000 Rear 28

DISCx000 Rear Side View (behind the backplane) 29

LVD equipped DISCx000 30

## **Chapter 4: Setup 31**

Checking the Delivery 32

Equipment 32

Quantity 32

Removing the Transportation Fixtures 34

---

Mounting the Stands 35  
Placing the Optical Library 36  
Operation Modes 37  
Mode 37  
Function 37  
Function of ID Switch 37  
RS232 Mode 37  
SCSI Mode 38  
SCSI Cable Requirements 38  
SCSI Cable Length 38  
Setting Drive SCSI IDs 38  
Connecting to a Host Computer 39  
Connecting the Serial Interface 39  
Connecting the SCSI Interface 40  
Connecting Line Voltage 41

## **Chapter 5: Operating the Optical Library 45**

Powering on the Optical Library 47  
Handling Media 48  
Handling Exposed Media 48  
Handling Packs 48  
Importing and Exporting Media 49  
The Mailslot 49  
Using Packs 50  
Removing Packs 50  
Action 51  
Status 51  
Display 51  
Inserting Packs 51  
Action 51  
Status 51  
Display 51

## **Chapter 6: The User Interface 53**

The User Interface 55  
Activating the User Interface 56  
User Interface Modes 56  
User Interface Mode 57  
Functional Areas Available 57  
User Mode 57  
Info Menu 57  
Info Menu Sub-Menu 58

---

Available Information 58  
PIN Codes Menu 59  
Admin Mode 59  
Operate Menu 60  
Address Digit 60  
This Digit Represents... 60  
Available Range to Input 60  
Command 61  
Functionality 61  
Settings Menu 63  
Machine Defaults 63  
Auto Disc 63  
Auto Start 63  
TCP/IP (for use at embedded NAS machines only) 63  
Parameter 64  
Function 64  
Service Mode 65

### **Agency Approvals 67**

Agency Approvals 69  
FCC Declaration 69  
Declaration of Conformity – DISC1000 70  
EG-Konformitätserklärung 70  
EC-Declaration of Conformity 70  
CE-Déclaration de Conformité 70  
Declaration of Conformity - DISC3000 71  
EG-Konformitätserklärung 71  
EC-Declaration of Conformity 71  
CE-Déclaration de Conformité 71  
Declaration of Conformity - DISC4000 72  
EG-Konformitätserklärung 72  
EC-Declaration of Conformity 72  
CE-Déclaration de Conformité 72  
Declaration of Conformity - DISC7000 73  
EG-Konformitätserklärung 73  
EC-Declaration of Conformity 73  
CE-Déclaration de Conformité 73

### **Technical Data 75**

Technical Specifications 773  
DISC1000 77  
DISC3000 77  
DISC4000 77  
DISC7000 77  
Interfaces 77

---

Operating Conditions 77  
Power Supply 77  
OEM Specifications 78  
DISC1000 78  
DISC3000 78  
DISC4000 78  
DISC7000 78  
Robotics 78  
Drives 78  
Dimensions and Weight 78  
Slot Upgrades 79

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# CHAPTER 1: COPYRIGHTS TRADEMARKS AND CONTACT INFORMATION

- Notice of Copyright
- Disclaimer
- Trademarks
- Contacting DISC

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## NOTICE OF COPYRIGHT

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D-55411 Bingen  
Germany

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DISC GmbH reserves the right to make changes in the product design without reservation and without notification to its users.



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# TRADEMARKS USED IN THIS MANUAL

DISC, and the DISC logo are registered trademarks of DISC GmbH

## CONTACTING DISC

### INTERNATIONAL

#### **INTERNET**

[www.disc-gmbh.com](http://www.disc-gmbh.com)

#### **MAILING ADDRESS**

DISC GmbH  
Schultheiss-Kollei-Straße 5  
55411 Bingen, Germany

#### **SALES**

Phone +49 (0) 6721 964-0  
Fax +49 (0) 6721 964-414  
E-Mail [sales@disc-gmbh.com](mailto:sales@disc-gmbh.com)

#### **TECHNICAL SUPPORT**

Phone +49 (0) 6721 964-222  
Fax +49 (0) 6721 964-245  
E-Mail [support@disc-gmbh.com](mailto:support@disc-gmbh.com)

Before contacting DISC Technical Support, please have the following information available

- Model, Serial Number and production date of your Optical Library
- Description of Optical Library environment (Operating System, software revision, and hardware)
- Detailed description of the problem



---

## CHAPTER 2: SAFETY INSTRUCTIONS

- Intended Use
- Residual Risks
- Safety

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## Verwendung von Abkürzungen

DISCx000:     DICC1000  
                 DISC3000  
                 DISC4000  
                 DISC7000

## INTENDED USE

The DISCx000 Optical Libraries are controlled by a host computer or combined server unit (NAS). The Optical Libraries were designed exclusively to read and write bare media, especially the Blue Laser (PDD, PD, BD) media, and are not intended for any other use.

Improper use of the Optical Library increases residual risk. Any person using the Optical Library should read and understand the User Manual, and in particular, the safety instructions included within the User Manual.

## USE OF INTERJECTIVE TERMS

**WARNING:** This word calls attention to a procedure or practice, which could cause personal injury if not correctly performed.

**CAUTION:** This word calls attention to a procedure or practice, which could result in damage to the product if not correctly performed.

**NOTE:** This word draws the users' attention to information that can improve understanding of the product.

Disregarding safety messages could result in personal injury or damage to the Optical Library.

## BAN ON ARBITRARY REVERSIONS AND CHANGES

The Optical Library must not be altered or changed in any way that does not comply with applicable safety regulations.

## REPAIRS

Repairs must be carried out only by DISC staff, or DISC authorized service providers.

DISC will not be liable for any damage caused from repair by unauthorized individuals.

Repair by unauthorized individuals may void your warranty.

---

## FIRE AND SHOCK HAZARD

To prevent fire and electrical shock, do not expose the unit to rain or moisture.

## OPENING THE UNIT

To prevent electrical shock, remove line cord before opening the unit.

---

**CAUTION:** *Do not operate the Optical Library while covers are removed. Ambient light and dust will interfere with Optical Library operation, and moving parts increase risk of personal injury.*

---

The exchange of the air filter can be done as 'hot swap' operation without a need to open the Optical Library!

## SAFETY

This product is in the used way a Laser Class 1 device. Disc access is accomplished via a laser beam. The laser beam does not represent any risk for the user.



This product complies with the DHHS Rules 21 CFR chapter 1, sub chapter J, accession number 9520184, applicable at the date of manufacture.

---

**CAUTION:** *The drives become under Laser Class 2M and 3B radiation if they get opened! This includes the risk of injury if you stare into the beam or expose something to the beam. You must not remove and open an optical drive of this Optical Library!*

---

## DATA SECURITY

Access to media, packs, and magazines is available only when a release command is sent for the host. It is your responsibility to allow access to the host computer (where the release command is initiated) to authorized personnel only.

---

## ELECTROMAGNETIC COMPATIBILITY

For CE certification, the DISCx000 Optical Library was tested with Adaptec 2940, 3940, 29160, 39160, 29320 and 39320 SCSI host adapters. Use of SCSI host adapters other than those above, particularly with DVD drives, may cause your system to exceed acceptable electromagnetic emissions.

## FUSES

The DISCx000 Optical Library must only be connected to electrical circuits secured by a 16 A fuse. For USA and Canada the DISCx000 Optical Library must only be connected to electrical circuits secured by a 20 A fuse.

There are several internal fuses which only may be accessed by certified service staff! Please call your dealer in case of service needs.

Fuse	PCB	Silkscreen Overlay Top Side
Mount Fuse 5A/63V fast-acting	142959-F	SI1; SI2
Mount Fuse 2A/63V fast-acting	142959-F	SI3
Mount Fuse 2A/125V slo-blo	143612-E	SI1

## PROFESSIONAL DISC MEDIEN

The bare PDD media surfaces are covered by a special 'hard coating' technology. Nevertheless they are sensitive to scratches and fingerprints. Handle writable media with care. Damaged media could result in loss of data.

All bare media shall be handled outside of the Optical Library within a certain cover! To export bare media best use the DISC Offline Packs (removable front site 15 pcs media magazines).

---

**NOTE:** For best performance, DISC recommends that only DISC certified media be used.

---

## DVD RAM and DVD-R Media

Recordable DVD media (especially DVD-RAM) are very sensitive to scratches and fingerprints. Please handle recordable DVD media with care, damaged or polluted media might end in a loss of data.

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## CHAPTER 3: OVERVIEW

- DISCx000 Components
- Installed Equipment
- DISCx000 Front
- DISCx000 Rear

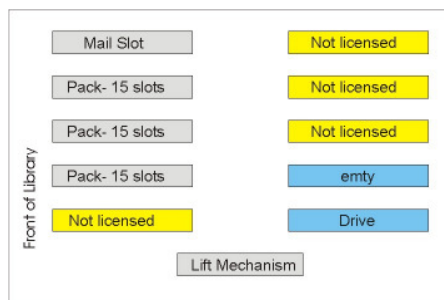
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## DISC1000 COMPONENTS

- 3 or 4 removable Packs (holding 15 media each)
- 1 Mailslot (for importing and exporting media)
- Up to 2 drives
- CapacityDoubler™ (flipper) unit (optional for DVD-RAM and DVD-R machines only)
- Up to 2 data interfaces (160 MB/s LVD SCSI)
- 1 robotic interface (RS232 or LVD SCSI)

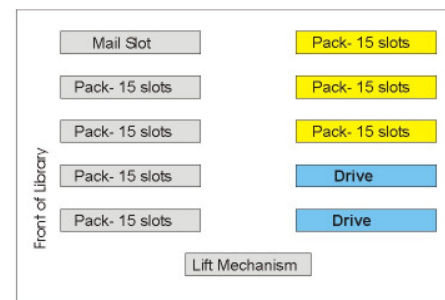
DISC1000-105-2 Optical Libraries have 4 Packs rather than 3; and will have filled up the empty rear side drive bays with additional Magazines (holding 15 media each).

### DISC1000 -45-1



**Fixed Number of Media Slots: 45**  
1 Drive

### DISC1000 105-2

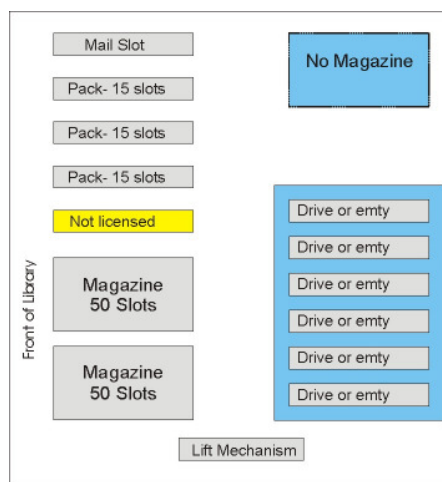


**Variable Number of Media Slots: 105**  
2 Drives

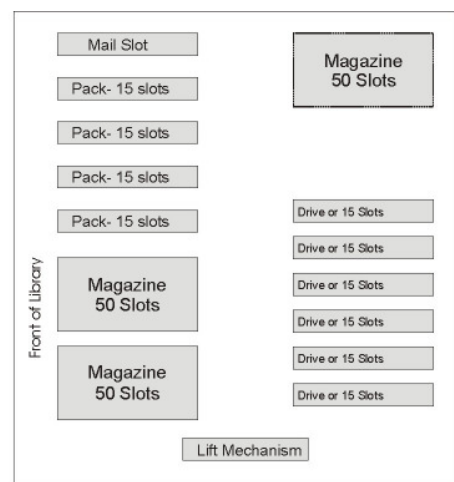
## DISC3000 COMPONENTS

- 2 or 3 Magazines (holding 50 media each)
- 3 or 4 removable Packs (holding 15 media each)
- 1 Mailslot (for importing and exporting media)
- Up to 6 drives
- Up to 4 data interfaces (SCSI-2 or LVD)
- 1 robotic interface (RS232 or SCSI)

The DISC3000 with 145 slots can be upgraded to a DISC3000 with 270 slots or 210 slots and 6 Drives. DISC3000 with 270 slots Optical Libraries have 4 Packs rather than 3; 3 Magazines rather than 2; and will have filled up the empty rear side drive bays with additional Magazines or Drives.



**Fixed Number of Media Slots: 145**  
2 / 4 / 6 Drives



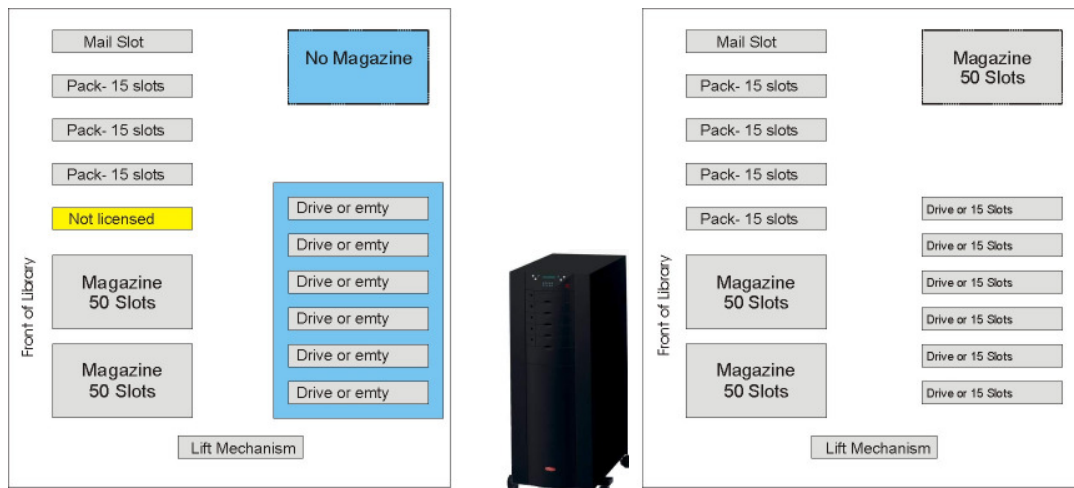
**Variable Number of Media Slots:**  
270 slots with 2 drives  
210 slots with 6 drives

The position numbers are counted from the bottom to the top.

## DISC4000 COMPONENTS

- 4 or 5 Magazines (holding 50 media each)
- 4 removable Packs (holding 15 media each)
- 1 Mailslot (for importing and exporting media)
- Up to 6 drives
- Up to 4 data interfaces (160 MB/s LVD SCSI)
- 1 robotic interface (RS232 or LVD SCSI)

The DISC4000 with 260 slots can be upgraded to a DISC4000 with 400 slots or 340 slots and 6 Drives. This Optical Libraryes have 5 Magazines rather than 4; and will have filled up the empty rear side drive bays with additional Magazines or Drives.



**Fixed Number of Media Slots: 260**  
2 / 4 / 6 Drives

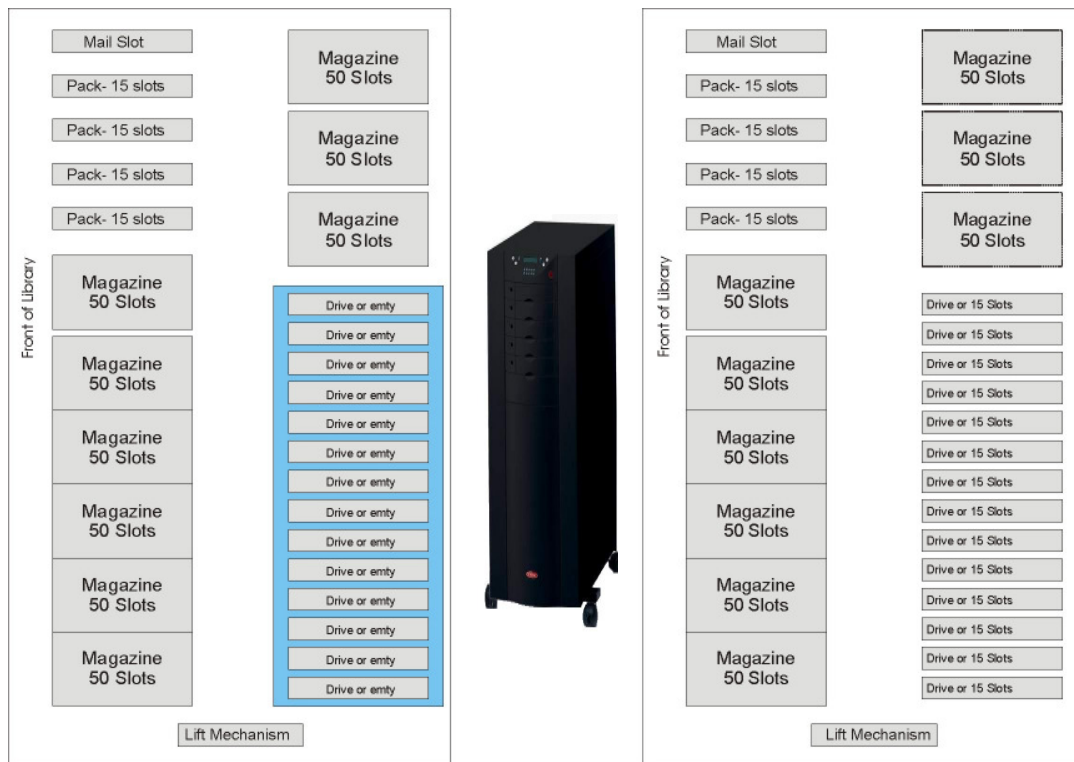
**Variable Number of Media Slots:**  
400 slots with 2 drives  
340 slots with 6 drives

The position numbers are counted from the bottom to the top.

## DISC7000U) COMPONENTS

- 9 Magazines (holding 50 media each)
- 4 removable Packs (holding 15 media each)
- 1 Mailslot (for importing and exporting media)
- Up to 14 drives
- Up to 6 data interfaces (160 MB/s LVD SCSI)
- 1 robotic interface (RS232 or LVD SCSI)

The DISC7000 with 510 slots can be upgraded to a DISC7000 with 690 slots or 510 slots and 14 Drives. This Optical Libraries will have filled up the empty rear side drive bays with additional Magazines or Drives.









**Fixed Number of Media Slots: 510**  
2 / 4 / 6 / 8 / 10 / 12 or 14 Drives

**Variable Number of Media Slots:**  
690 slots with 2 drives  
510 slots with 14 drives

The position numbers are counted from the bottom to the top.

## INSTALLED EQUIPMENT

Refer to the serial number plate on your Optical Library for model and equipment information.

<b>DISCX000</b>		S/N	X01001-XX
xxx-xxxV~ xx/xxHz xA	TYPE	BD-105-2	
MANUFACTURED			
Made in Germany			
 Disc GmbH Im Tiergarten 24 D-55411 Bingen am Rhein	  LISTED  		
<p>This product complies with DHHS Rules 21 CFR chapter 1, subchapter J.</p> <p>This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.</p> <p>Ce appareil numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.</p> <p>This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.</p>			

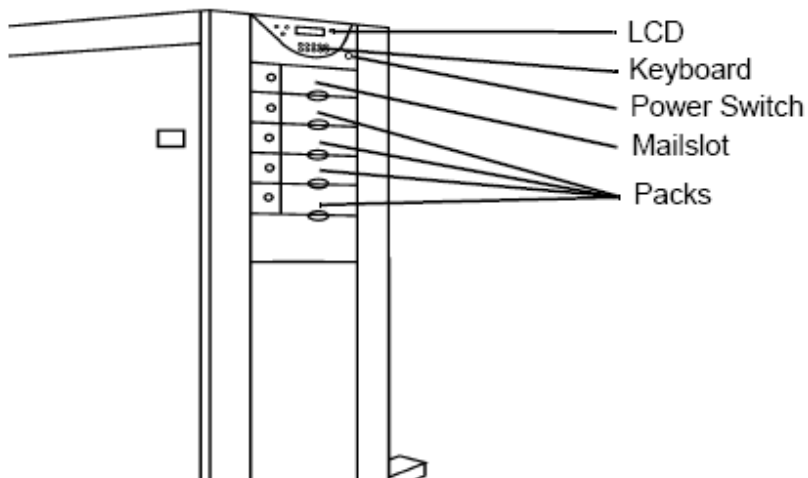
## STRUCTURE OF MODEL DESIGNATION

DISCx000-T-XXX YY-R-b	
DISCx000	Model
T	Technology type
XXX	Number of existing media slots
YY	Number of built-in drives
R	Redundant PSU (bei DISC1000 nicht verfügbar; DISC3000 und DISC4000 optional; DISC7000 Standard)
b	Options

## EXAMPLE OF MODEL DESIGNATION

DISC3000 -BD-225-4-R	
BD	BD-drives
225	225 trays
4	4 BD drives
R	Redundant power supply unit

## DISCx000 FRONT



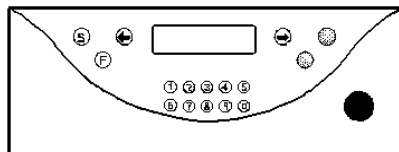
1. LCD (display)
2. Keyboard
3. Power switch
4. Mailslot (for importing and exporting media)
5. Pack (for multiple import or export of 15 media)



## KEYBOARD

The keyboard is used to operate the Optical Library without the aid of any external host software for Optical Library control. The keyboard is also used to activate service and event logging functions.

## LCD



The Liquid Crystal Display provides information about Optical Library status during operation. When the Optical Library is first powered on, the firmware revision displays for 5 seconds.

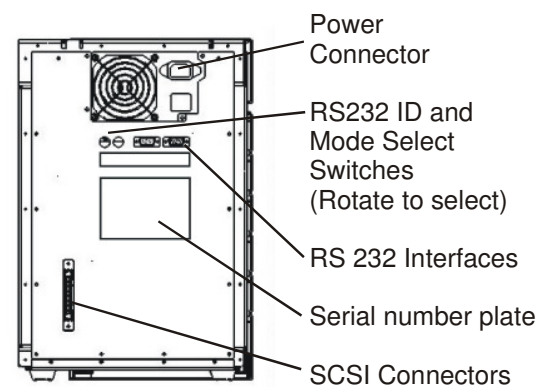
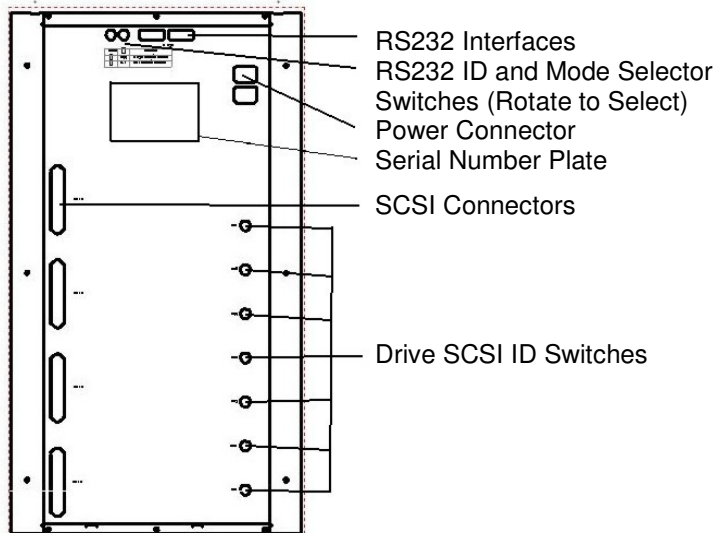
**DISC 4000**  
**V4508 - 09/02/05**

The LCD is also used to display and/or edit values in the Service Mode, as well as to display Event Codes in the Event Logging Mode.

## DISCX000 REAR

DISC3000  
DISC4000  
DISC7000

DISC1000



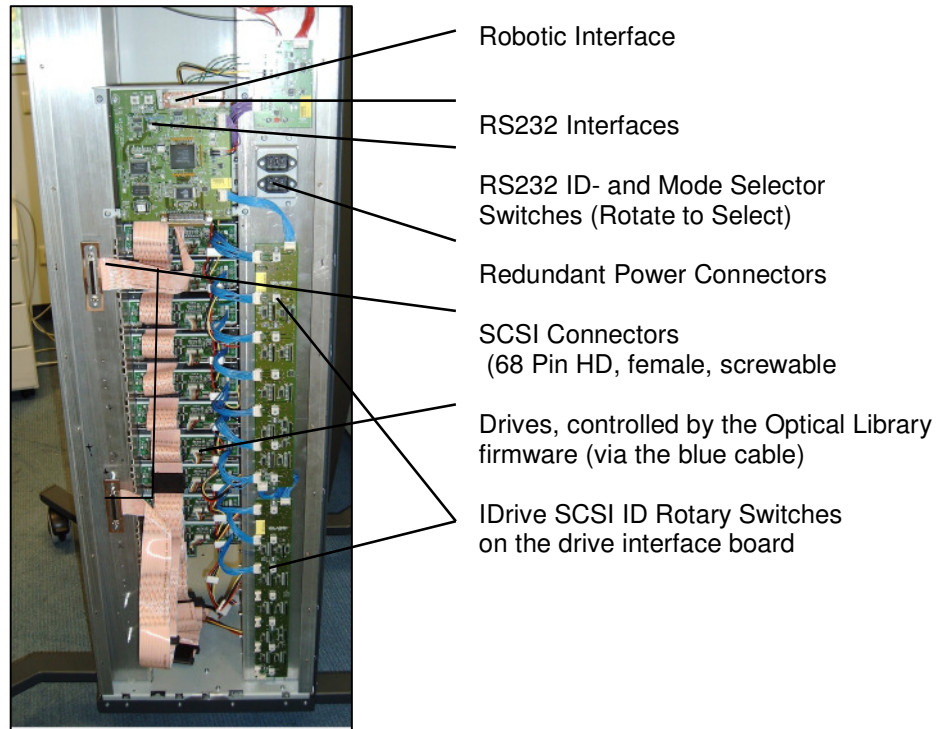
The DISC1000 is by default equipped with 1 LVD SCSI bus.

The DISC3000 and DISC4000 are by default equipped with 1 or 2 LVD SCSI busses, depending upon the number and type of drives in the Optical Library and their assignment up to 4 LVD busses are possible.

The SCSI busses are wide (16 bit) U160 LVD SCSI type with internal termination.

The connectors are of screwable 68 pin HD (female) type.

### DISCx000 Rear Side View (behind the backplane)



The DISC7000(U) are by factory default equipped with 1 to 3 SCSI busses. Depending upon the number and type of drives in the Optical Library up to 6 SCSI busses are possible.

---

**CAUTION:** To ensure reliable data transfer, only shielded high quality SCSI cables should be used. For additional SCSI cable information, see the SCSI-3 specification. Max. external cable length is 10 meters!

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**CAUTION:** Your Optical Library uses Low Voltage Differential (LVD) technology, ensure that all cables and terminators support LVD.

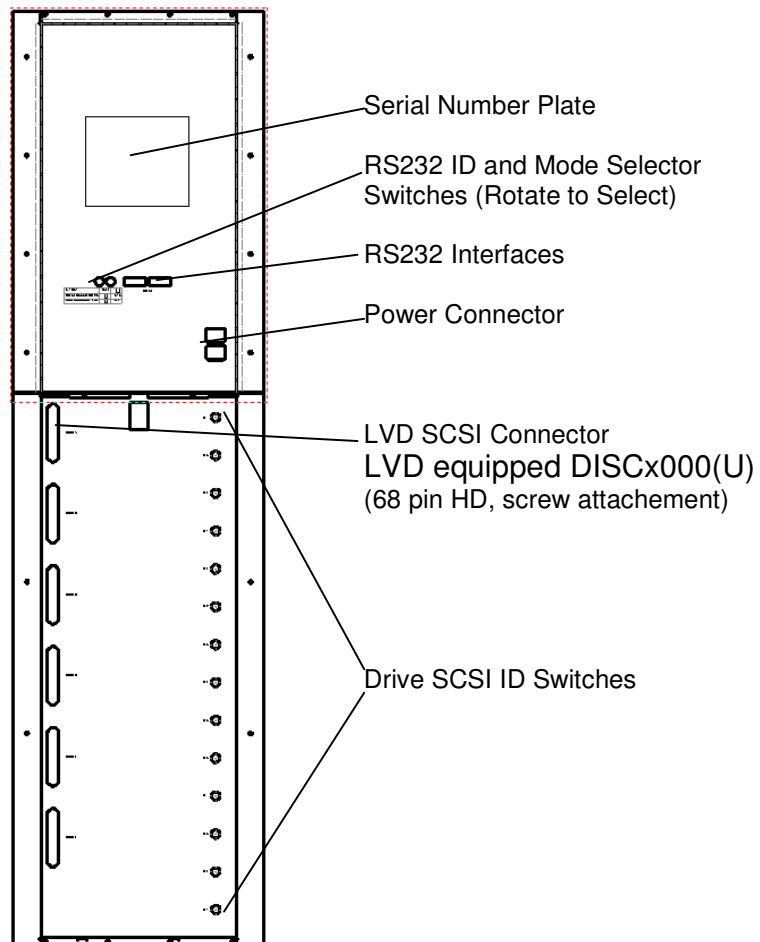
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**CAUTION:** The Optical Library LVD busses are internally terminated, and therefore do not support daisy-chaining. Never connect any additional external SCSI device additional to the same bus together with the Optical Library!

---

## LVD equipped DISCx000



# CHAPTER 4: SETUP

- Checking the Delivery
- Removing the Transportation Fixtures
- Mounting the Stands
- Placing the Optical Library
- Operation Modes
- Setting the Drive SCSI IDs
- Connecting to a Host Computer
- Connecting Line Voltage

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## CHECKING THE DELIVERY

Review the following table to ensure that you have all the required equipment.

Equipment	Quantity
Power Cord	1
Power Cord USA (only USA)	1
Ferrite	1 ( 2 by dual redundant power supply unit)
RS232 Cable	1
Quick Installation Guide	1
User Manual CD	1
Allen type screw driver	1
Allen Type screws	4-6 (missing screws to fully fix the right side cover)
Stands	4 (only by DISC3-7000)
Optical Library	1

## REMOVING THE TRANSPORTATION FIXTURES

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**NOTE:** More detailed information about removing transportation fixtures can be found on the label affixed to the Optical Library.

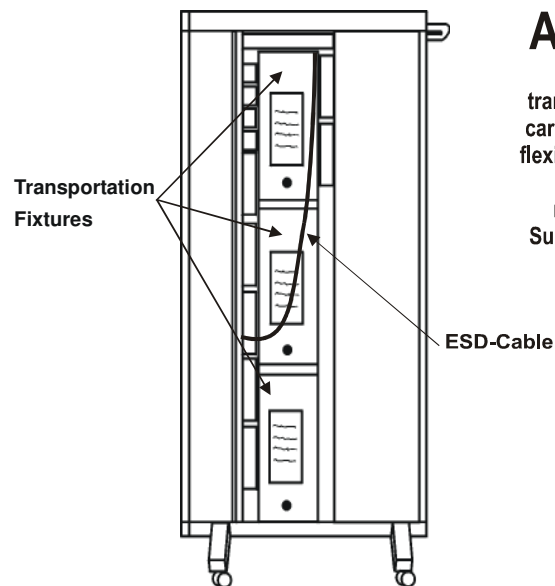
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### ▼ Removing the Transportation Fixtures DISC3-7000

1. Remove the two screws that affix the right cabinet cover of the Optical Library.
2. Remove the right cabinet cover.
3. Remove the transportation fixtures inside the Optical Library.

### ▼ Removing the Transportation Fixtures DISC1000

1. Remove the 14 screws that affix the right cabinet cover of the Optical Library.
2. Remove the right cabinet cover.
3. Remove the transportation fixtures inside the Optical Library.



### ATTENTION

When removing the transportation lock please carefully protect the black, flexible cable from bending, twisting or other mechanical damage. Such damage may impact the proper function of the library.

---

**CAUTION:** Powering on the Optical Library with transportation fixtures inside can damage the robotics.  
Do not operate the Optical Library while covers are removed. Ambient light will interfere with Optical Library operation, and moving parts increase risk of personal injury.

---



## MOUNTING THE STANDS

---

**WARNING:** Do not operate the Optical Library without the stands installed.



Regulations require the stands to be installed!

---

### ▼ Mounting the Optical Library Stands DISC3-7000

---

**NOTE:** Two people are required to perform this procedure.

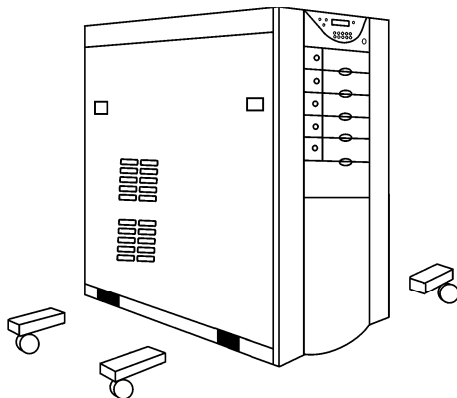
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1. Tilt the Optical Library to the left.
2. Push the front stand for the right side into the slot near the bottom of the Optical Library until it “clicks” in.
3. Push the rear stand for the right side into the slot near the bottom of the Optical Library until it “clicks” in.
4. Tilt the Optical Library to the right.
5. Push the front stand for the left side into the slot near the bottom of the Optical Library until it “clicks” in.
6. Push the rear stand for the left side into the slot near the bottom of the Optical Library until it “clicks” in.

---

**NOTE:** The roles of a DISC7000 have to stand to the outside. Take care to mount the stands angled to the right side

---



## PLACING THE OPTICAL LIBRARY

The DISCx000 Optical Libraries are intended for use in office or computer lab environments.



---

**CAUTION:** *After delivery, the Optical Library should be allowed to come to room temperature before operation.*

---

When placing the Optical Library...

Avoid places with:

- extreme temperature
- excessive sun exposure
- high humidity
- contact with water
- contact with chemicals
- extreme vibration

The right location has:

- stable, even support
- sufficient space to pull out and service the unit
- ambient maximum of 37°C

---

**CAUTION:** *To ensure sufficient cooling airflow and to have enough work space to exchange the air filter, at least 50 cm free space has to be left at the right side of the Optical Library.*

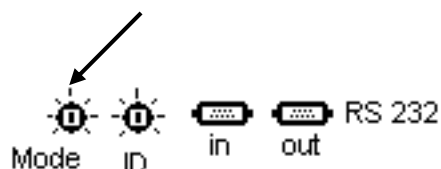
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## OPERATION MODES

Several operation modes are available which can be selected using the Mode Select switch on the rear of the Optical Library.

The function of the ID Switch depends upon the mode selected.

Which mode must be selected depends upon the host application used to control the Optical Library.



Mode	Function	Function of ID Switch
0	0 RS232 mode	RS232 ID (robotik)
1	SCSI mode	SCSI ID (robotik)
2-F	DISC internal use only	-----

## RS232 MODE

The RS232 mode must be selected if the Optical Library is controlled via the serial interface (RS232). The factory default RS232 ID is 00. The available range for the RS232 ID is 00 to 15, and can be changed using a small flat-head screwdriver. The ID need only be changed when more than one Optical Library is connected to the serial bus.

---

**CAUTION:** Do not connect more than 3 Optical Libraryes to the serial bus. If more than 3 Optical Libraryes are connected to the serial bus, signal attenuation will occur, causing Optical Library malfunctions.

---

The maximum serial cable length of the serial bus is 15 meters, and must not be exceeded.

## SCSI MODE

The SCSI mode must be selected if the Optical Library is controlled via the SCSI bus. The ID switch is used to select the robotics SCSI ID. The range for SCSI IDs is 00 to 07.

## SCSI CABLE REQUIREMENTS

---

**CAUTION:** *To ensure reliable data transfer, only shielded high quality SCSI cables should be used. For additional SCSI cable information, see the SCSI-3 specification.*

*Your Optical Library uses Low Voltage Differential (LVD) technology, ensure that all SCSI cables and terminators support LVD.*

---

## SCSI CABLE LENGTH

To connect the Optical Library to the SCSI host adaptor only cables that do not exceed 10 meters cable length may be used

## SETTING DRIVE SCSI IDs

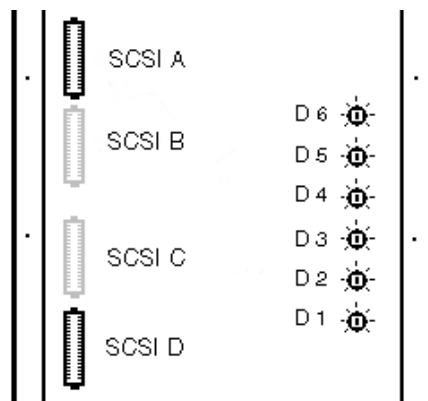
The ID switches on the rear of the Optical Library are used to set drive SCSI IDs (only DISC 3-7000).

The ID range for each drive is 00 to 07. Each drive on any given bus must have a unique ID. (If more than one SCSI bus is installed you use a small screwdriver to adjust the switches to the desired IDs.) The factory default for DISC1000 is ID 01 and 02.

---

**NOTE:** *Most host applications require to have the ascending order of SCSI IDs according to the physical position of the drive within the Optical Library (counted from bottom to top)!.*

---



---

**CAUTION:** *If the robotic interface is set to SCSI mode, do not switch a drive to the same SCSI ID.*

---

## CONNECTING TO A HOST COMPUTER

### CONNECTING THE SERIAL INTERFACE

---

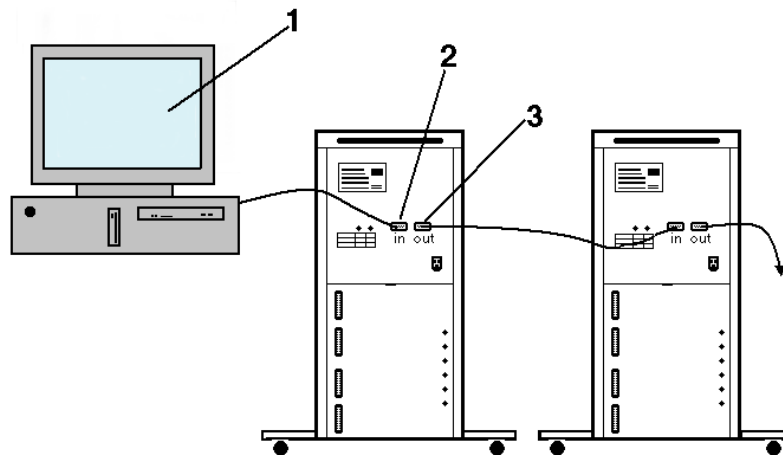
**CAUTION:** *Shut down the Optical Library and host computer before connecting cables.*

---

Depending upon host software used to control the Optical Library, either the serial interface or SCSI interface must be connected to the host computer. This section pertains to systems connected to the host via a serial interface. If your host software requires a SCSI connection, see “Connecting the SCSI Interface” on page 40 and disregard the remainder of this section.

All mechanical operations including loading and unloading media, and importing and exporting media can be controlled via the RS232 interface.

By default, the RS232 ID for the robotics is set to 00. This setting need only be changed when more than one Optical Library is connected to the serial bus.



1. Host Computer
2. RS232 cable in (RS232 cable from host computer to Optical Library in)
3. Daisy-chain connection for additional Optical Libraries (Optical Library out from first unit to Optical Library in on next unit)

## CONNECTING THE SCSI INTERFACE

---

**CAUTION:** Shut down the Optical Library and host computer before connecting cables.

---

Depending upon host software used to control the Optical Library, either the serial interface or SCSI interface must be connected to the host computer. This section pertains to systems connected to the host via a SCSI interface. If your host software requires a serial connection, see "Connecting the Serial Interface" on page 39 and disregard the remainder of this section.

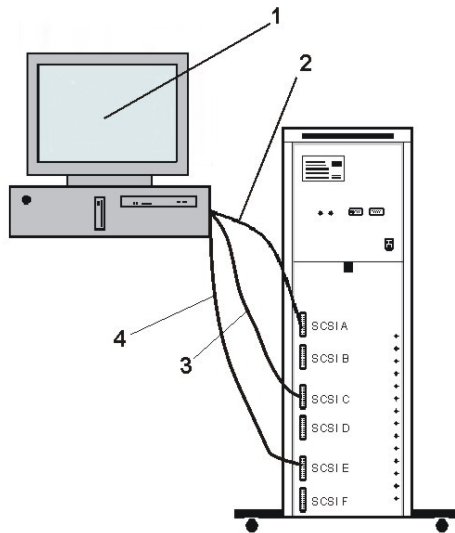
---

**CAUTION:** LVD equipped Optical Libraries are internally terminated, and therefore do not support daisy-chaining. Max. external cable length is 10m!

---

SCSI interfaced systems connect to the first SCSI bus (SCSI A) on the Optical Library.

The DISC7000 Optical Library can be equipped with 1 to 6 SCSI busses (SCSI A - SCSI F), the DISC3000 and DISC4000 can be equipped with 1 to 4 SCSI busses (SCSI A - SCSI D) and the DISC1000 with 1 SCSI bus.



1. Host computer
2. SCSI bus A to host computer connection
3. SCSI bus B to host computer connection
4. SCSI bus C to host computer connection

---

**CAUTION:** LVD equipped Optical Libraries require term power from the bus. The host computer must be powered on for the Optical Library to start up or operate.

---

## CONNECTING LINE VOLTAGE

Before connecting the Optical Library to the electrical outlet, mount the ferrite to the power cord as close to the Optical Library as possible.

All DISC Optical Libraries have auto-switching power supplies. No adjustment is needed to switch between 110 volt and 220 volt electrical systems.

All DISCx000 Optical Libraries can either be equipped with a standard or dual redundant power supply unit.

In case one of the PSU modules is failing or temporarily not connected, the Optical Library can run with the remaining one. An acoustic alarm (beep) is given until the failing module has been exchanged or the missing mains cable is connected again.

---

**CAUTION:** *If your Optical Library is equipped with a redundant PSU you always should connect both line voltage cables! In order to get a high availability system it is recommended to connect each line voltage cable to a different power circuit.*

---

---

**WARNING:** *The Optical Library is not electrically disconnected from line voltage when powered down. To electrically disconnect the Optical Library from line voltage you must disconnect the power cord.*

---

---

**CAUTION:** *The DISCx000 Optical Library must be connected to an electrical circuit that is secured with a 16 Amp fuse.*

---

---

**WARNING:** *In case of a failing PSU the Optical Library case has to be opened for exchange. Opening of the covers and service interaction must be done by skilled service staff only!*

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# CHAPTER 5: OPERATING THE OPTICAL LIBRARY

- Powering on the Optical Library
- Handling Media
- Importing and Exporting Media
- The Mailslot
- Using Packs

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## POWERING ON THE OPTICAL LIBRARY

Always power on the Optical Library before the host computer. Failure to do so may result in the host not recognizing the Optical Library, and being unable to interface with it.

---

**CAUTION:** *LVD equipped Optical Libraries require term power from the bus. The host computer must be powered on simultaneously for the Optical Library to start up or operate.*

---

To power on the unit, press the red power button on the front of the Optical Library. The display will show:

**Booting ...**

...and then change to: **Reading License Data...**

...and finally change to:

DISC4000  
V4508 N1170

During boot-up the robotics will rezero. While this is occurring, you will hear mechanical noises from the unit.

The Optical Library robotics are normally controlled via a host software application. For information on how to operate the Optical Library using a host, see your host software user manual. For information on how to operate the Optical Library without a host, see "Operate Menu" on page 60.

---

**CAUTION:** *Do not operate the Optical Library while covers are removed. Ambient light will interfere with Optical Library operation, and moving parts increase risk of personal injury.*

---

## HANDLING MEDIA

### HANDLING EXPOSED MEDIA

Exposed media should be handled without touching the readable areas of the disc. Scratches, fingerprints, or any other artifact on the disc reading surface may cause loss of data. Best wear cotton gloves when handling the bare media and keep them only within a well suited case like a 'jewel case' or the DISC Offline Packs!

---

**NOTE:** *The PDD media are protected by a special hard coated surface. You may clean them carefully using a soft, damp cloth without cleaning agent!*

---

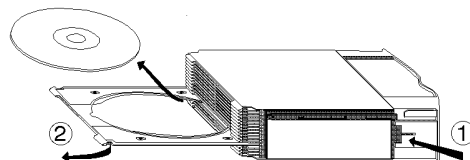
### HANDLING PACKS

Media trays within packs are secured by the casing and will not fall out as long as all trays are in the pack (with or without media in all trays).

Packs with missing trays must be handled carefully. The remaining trays are locked into the pack but the medium below the removed tray is exposed and may move or fall out!

#### ▼ Removing Trays from a Pack

1. Press the red button at the left side of the Pack.
2. Pull out the tray.



## IMPORTING AND EXPORTING MEDIA

Media is imported and exported in one of two ways:

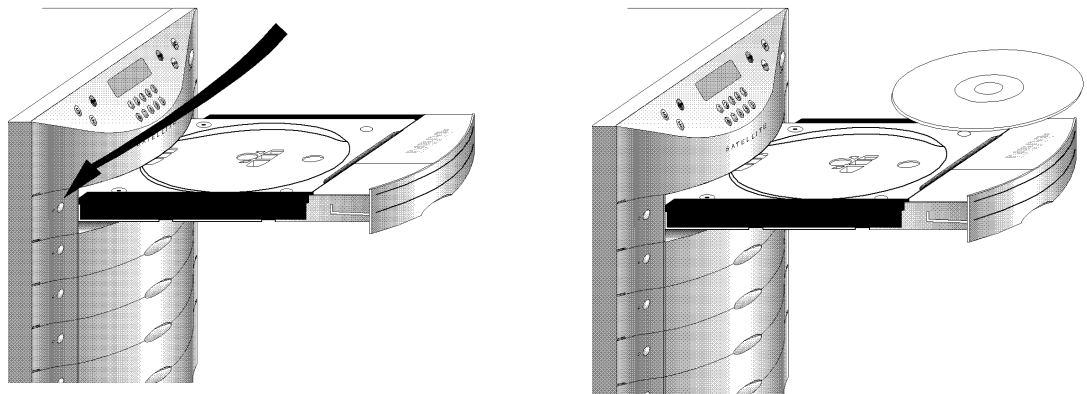
- Through the Mailslot
- Through Packs

Which method you use will depend on the circumstance, and whether or not you have a host controlling the Optical Library.

### THE MAILSLOT

When using host software to control the Optical Library, the mailslot will automatically open when an import or export command is sent from the host. After importing or exporting a medium, the host application usually closes the mailslot automatically as well. If your host does not automatically close the mailslot drawer, you can close it by pressing the [Enter] key, or gently pushing the front of the drawer.

For information on importing and exporting media without using a host application, see “Operate Menu” on page 60.



---

**CAUTION:** *Even if the bare PDD media are protected by a special hard coating, you must not import media with polluted or scratched surface into the library! Avoid to touch the read/write area of the media with your fingers! Place exposed media immediately into a well suited case or cartridge!*

---

## USING PACKS

DISC Media Packs are devices that contain 15 separate trays for media, surrounded by a case. You can quickly import or export multiple discs at once using packs, that would otherwise take much longer to import or export through the Mailslot. The Packs are also the best way to carry around or store the bare media.

Every Pack has a world wide unique serial number which is stored in a 512k Smart Card chip and labeled with barcode on the Pack case. Therefore they easily can be handled and kept track by corresponding software applications.

## REMOVING PACKS

Packs can be removed when the status indicator is green or yellow. Packs are hot swappable, meaning that the packs can be removed or inserted while the machine is in operation. For more information on handling packs once they are removed from the Optical Library, see "Handling Packs" on page 46

---

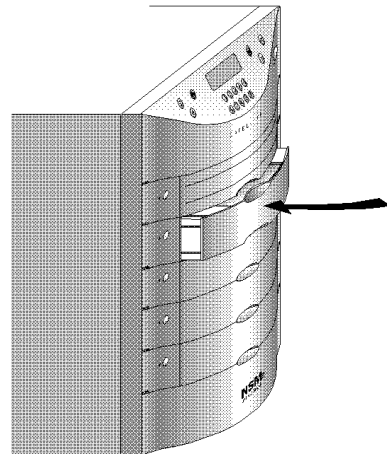
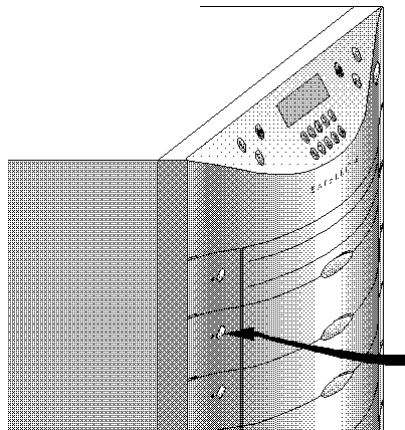
**NOTE:** For safety reasons, adjacent packs cannot be removed at the same time.

---

---

**NOTE:** Magazines are fixed to the Optical Library, and cannot be removed. To remove media from magazines, either move the media to a pack for removal, or remove it using the mailslot.

---





Action	Status	Display
Press the pack button	The LED starts to flash yellow; all media are returned to the pack. LED flashes green; the pack is now ready to be removed.	The display reads... Please push pack <number of pack being removed>
Push the front of the pack towards the Optical Library.	The pack releases from the Optical Library. The LED is not lit.	The display reads... Please remove pack <number of pack being removed>

---

**NOTE:** *If the Optical Library is controlled by a host application, direct pack access from the Optical Library front panel may be disabled (visible at the status LED that turns to amber in this case). If your host software runs in this manner, packs can only be released by the host computer.*

---

## INSERTING PACKS

Action	Status	Display
	LED is dark.	
Push the pack into the Optical Library.	LED flashes yellow, then changes to green Optical Library scans the pack for media.	

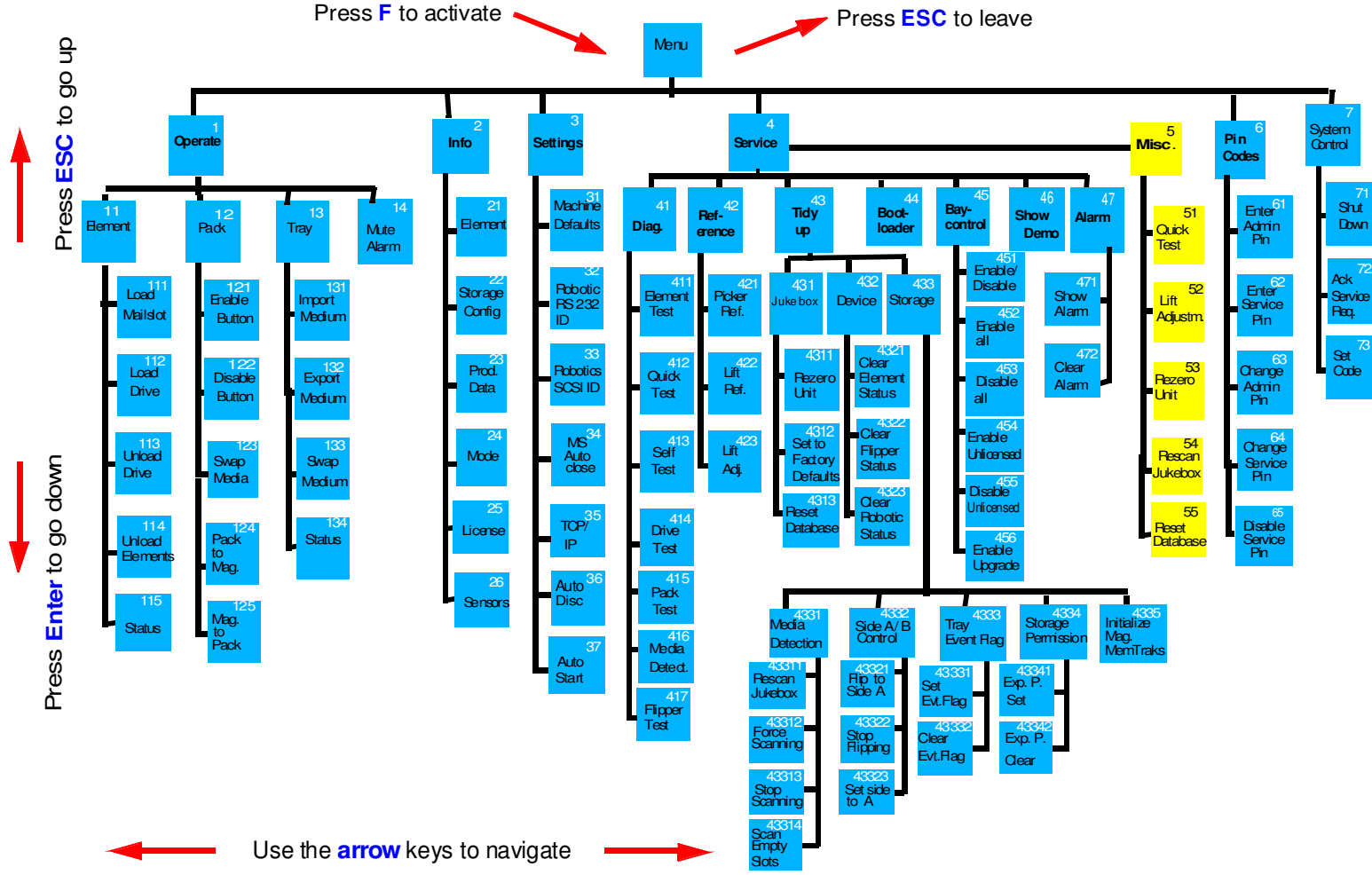
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# CHAPTER 6: THE USER INTERFACE

- User Interface Diagram
- Activating the User Interface
- User Interface Modes and Commonly Used Functions

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# THE USER INTERFACE



## ACTIVATING THE USER INTERFACE

The Optical Library User Interface Function Menu is activated by pressing the **F** key.

To **navigate** horizontally through the User Interface, press the **←** and **→** **arrow** keys. To navigate vertically, press **Esc** (up) and **Enter** (down). If you know the number of the desired function, you can press [F] followed by the function number to go directly to that screen. Function numbers are listed on the User Interface Diagram. For more information, see "The User Interface" on page 53.

To **exit** the User Interface, go to the menu root (1) and press **Esc**. The User Interface will also automatically exit after 10 minutes when no button is pressed within a submenu.

## USER INTERFACE MODES

The Optical Library User Interface is used to configure and operate the Optical Library without using a host computer.

The User Interface has 3 modes:

- User Mode
- Admin Mode
- Service Mode

Access to User Mode is available to any user. You must first enter the correct Admin PIN to access the Admin Mode and the correct Service PIN to access the Service Mode.

**Service Mode is for trained technicians only, and should not be accessed if you are not a DISC authorized service provider.**

Refer to the table below to determine what functional areas are part of which mode:

User Interface Mode	Functional Areas Available
User-Mode	Info PIN Codes
Admin-Mode	Operate Settings
Service-Mode	Service Demo System Control

## USER-MODE

<b>DISC x000(U)</b>
<b>Vxxxx      01/07/05</b>

<b>User Menu</b>
<b>Select Item</b>

In the **User Mode**, only the **Info** and **PIN Codes** menus and few parts of the **Operate** menu (e.g. import and export of media) are available. In this mode, no settings can be changed or operations performed except for entering or changing Admin or Service Codes (in the PIN Codes menu).

The availability of functions in the User Mode may vary when being controlled by a host application

## INFO MENU

The Info Menu provides information about the Optical Library configuration and capacity.

The following information is available in the Info Menu:

Info Menu Sub-Menu	Available Information
Element Config.	Optical Library Equipment Information Mailslot available (yes/no) Position of drives in Optical Library Type of drives SCSI IDs of drives
Storage Config.	Optical Library Capacity Information Number of media in Optical Library (number of CDs/DVDs) Total number of slots in Optical Library
Prod. Data	Optical Library Production Data Information Vendor ID Product ID Revision level Production date Part number Serial number FW (firmware) revision FW (firmware) date
Mode	Optical Library Robotics Mode Information RS232 or SCSI mode
License	Optical Library License Information License Level used Interface Board used License Key Unit data



## PIN CODES MENU

The PIN Codes menu allows you to enter or change the Optical Library PIN Codes. This is required in order to enter Admin or Service areas of the User Interface, or if you wish to change the PIN for either Admin or Service UI functions.

To access Admin areas of the UI, enter the Admin PIN and press Enter. The default Admin PIN is 9999.

To access Service areas of the UI, enter the Service PIN and press Enter. To change the Admin PIN, enter the new Admin PIN and press Enter. You must first enter the original Admin PIN before you are allowed to change to a new Admin PIN.

To change the Service PIN, enter the new Service PIN and press Enter. You must first enter the original Service PIN before you are allowed to change to a new Service PIN.

## ADMIN MODE

The **Admin Mode** is activated by entering the **Admin PIN** from the PIN Codes menu of the User Mode.

In the Admin Mode, the **Operate** and **Settings** menus become available. All necessary settings for installing the Optical Library can be configured in this mode. It is also possible to fully operate the Optical Library without using a host application in this mode.

The default **Admin PIN** is **9999**. To deactivate the Admin PIN so no code is required to access the Admin Mode, change the PIN to 0000.

## OPERATE MENU

The Operate menu offers several functions to control or operate the Optical Library without host software.

---

**CAUTION:** *Disconnect the Optical Library from the host before executing any Operate menu commands.*

---

The Operate Menu has 3 sub-menus:

- Element
- Pack
- Tray

Refer to the User Interface Diagram on page 54 to determine which sub-menu contains the command you wish to execute.

Once you select the function within the Operate menu that you desire, the Optical Library User Interface will prompt you for pertinent information needed to execute the command. Typical information that you will be prompted for includes:

The address of a tray

- Location (front or rear of the Optical Library).
- Position (bay) of the magazine
- Position of the tray within the magazine.

This type of query is answered by entering the 5 digit location address, and pressing Enter. Location address parameters are listed in the table below:

Address Digit	This Digit Represents...	Available Range to Input
1	Location (front or rear of Optical Library)	1 (front) or 2 (rear)
2 and 3	Position (bay) of magazine.	1 to 17
4 and 5	Position of tray inside magazine.	01 to 50

Element  
Load Mailslot

Tray            1=Front  
>X----<      2=Rear

Tray            Bay  
>-YY--<      1-17

Tray            Tray  
>---ZZ<      1 - 50

The available commands within the Operate menu, along with their functions are listed in the table below:

Command	Functionality
Load Mailslot (F111)	Used to import and export a single medium. After completing the command, press enter to import or export another medium, or simply enter the address of the next medium. After you are finished importing and exporting media, close the mailslot door by gently pushing it.
Load Drive (F112)	Used to move and load a medium to any drive.
Unload Elements (F114)	Used to return all media from drives and the mailslot to their home storage positions..
Enable Button (F121)	Used to release a pack when the pack buttons are disabled by a host application. This command will override the host and Machine Default.
Disable Button (F122)	Used to disable a pack that has been released with the Enable function. This will return control of the pack back to the host application.

Command	Functionality
Swap Media (F123)	Used to exchange the contents of a pack (front of the Optical Library) with the contents of a magazine (rear of the Optical Library). Parameters include: source pack (front or rear of Optical Library; bay) and the destination magazine (front or rear of Optical Library; bay; number of first slot to use).
Pack to Mag. (F124)	Used to move all media in packs (front of Optical Library) to magazines (rear of Optical Library). This is the fastest way to import large quantities of media to the Optical Library in parallel.
Mag. to Pack (F125)	Used to move all media in magazines (rear of Optical Library) to packs (front of Optical Library). This is the fastest way to export large quantities of media from the Optical Library in parallel. The operation stops when all trays in packs are full, and continues as soon as an empty pack is inserted.
Import Medium (F131)	Used to import several media serially into the Optical Library. After import of the first medium, close the mailslot with the Enter key. The next empty tray is automatically loaded to the mailslot for the next import. After you have imported the final medium, press the Esc key to stop the operation.
Export Medium (F132)	Used to export several or all media. Opposite of Import Medium (F131)
Swap Medium (F133)	Used to move a single medium to another storage location. Parameters include: source tray (front or rear of Optical Library; bay of magazine; position of tray inside magazine), and destination tray (front or rear of Optical Library; bay of magazine; position of tray inside magazine).

## SETTINGS MENU

### MACHINE DEFAULTS

The Machine Defaults are special presets that can be used by a host application to configure the Optical Library. All Optical Libraries are originally set to Machine Default 21.

A host application may change the Machine Default to another value. It is also possible to manually change the Machine Default using the Service Mode Machine Default menu (F31) in the User Interface.

---

**CAUTION:** *All software that wants to operate the Optical Library in SCSI mode requires the Machine Defaults to be set to 21 (factory default) before the installation.*

---

---

**NOTE:** *In some Machine Defaults, the packs can only be controlled by the host application.*

---

### AUTO DISC

The **Auto Disc** function (F36) is used to automatically load a specific disc into a drive when the Optical Library is powered up. One use of Auto Disc is to start the complete system from a bootable disc.

Parameters for Auto Disc include the position of the drive (bay) to load to, and the address of the medium (front or rear of Optical Library; bay number; tray number) to be loaded into the drive.

### AUTO START

The Auto Start function (F37) is used to automatically mount media that are inside drives when the Optical Library is powered up.

### TCP/IP (FOR USE AT EMBEDDED NAS MACHINES ONLY)

The TCP/IP function is used to preset the static IP address and configure network parameters if the Optical Library is equipped with an internal NAS server unit.

Parameter	Function
IP Address Read	Displays the current IP Address settings.
IP Address Set	Used to set the NAS IP Address. Factory default is 000.000.000.000.
Subnet Mask Read	Displays the current Subnet Mask settings.
Subnet Mask Set	Used to set the NAS Subnet Mask. Factory default is 000.000.000.000.
Gateway Addr. Read	Displays the current default Gateway settings.
Gateway Addr. Set	Used to set the default Gateway Address. Factory default is 000.000.000.000.
Access IP List	Only used with eCabinet storage accessories. Used to set IP addresses for eCabinets accessing the Optical Library. The factory default for all addresses is 000.000.000.000.
IP Settings Clear	Resets all addresses to factory default of 000.000.000.000.

## SERVICE MODE

---

**NOTE:** *Unauthorized use of Service Mode functions may damage the Optical Library and void your warranty.*

---

The **Service Mode** is activated by entering the **Service PIN** from the PIN Codes menu of the User Mode.

In the Service Mode, all functions and submenus become available. The functions available in the Service Mode should only be used by trained technicians.

To deactivate the Service PIN so that no code is required to access the Service Mode, change the PIN to 0000.

---

**NOTE:** *For more information about the Service Mode, see the DISCx000 Service Manual.*

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## APPENDIX B: AGENCY APPROVALS

- FCC Declaration
- Declaration of Conformity

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## AGENCY APPROVALS

### FCC DECLARATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Important: This product was FCC verified under test conditions that include the use of shielded cables and connectors between system components. It is important that you use shielded cables and connectors to reduce the possibility of causing interference to radios, televisions, and other electronic devices.

Should you have any problems contact your dealer.

# DECLARATION OF CONFORMITY - DISC1000



EG-Konformitätserklärung	EC-Declaration of Conformity	CE-Déclaration de Conformité
<p>mit den Richtlinien 89 / 336 / EWG und 73 / 23 / EWG.</p> <p>Hiermit wird bestätigt, dass das Produkt</p> <p><b>PDD Optical Library DISC 1000</b></p> <p>mit den folgenden Normen bzw. normativen Dokumenten übereinstimmt:</p> <p><b>EN 55022: 1998 + A1: 2000</b> Grenzwerte und Messverfahren für Funkstörungen von informationstechnischen Einrichtungen.</p> <p><b>EN 50024: 1998 + A1: 2001</b> Störfestigkeit von informationstechnischen Einrichtungen.</p> <p><b>EN 61000-3-2: 2000</b> <b>EN 61000-3-3: 1995 + A1: 2001</b></p> <p><b>EN 60950, UL 1950, CUL C22.2No.950</b> Sicherheit von Einrichtungen der Informationstechnik.</p> <p>Das Qualitätssicherungssystem von <b>DISC</b> garantiert die Konformität.</p> <p>Hersteller:</p> <p><b>DISC GmbH</b> Im Tiergarten 24 D-55411 Bingen am Rhein</p> <p>Ausstellungsdatum: <b>02.06.2005</b></p>	<p>per 89 / 336 / EEC and 73 / 23 / EWG.</p> <p>This is to confirm that the product</p> <p><b>PDD Optical Library DISC 1000</b></p> <p>is in compliance with the following standards or other normative documents:</p> <p><b>EN 55022: 1998 + A1: 2000</b> Limits and methods of radio interference characteristics of information technology equipment.</p> <p><b>EN 50024: 1998 + A1: 2001</b> Information technology equipment-Immunity Characteristics- Limits and methods of measurement.</p> <p><b>EN 61000-3-2: 2000</b> <b>EN 61000-3-3: 1995 + A1: 2001</b></p> <p><b>EN 60950, UL 1950, CUL C22.2No.950</b> Safety of information technology equipment.</p> <p><b>DISC</b> quality assurance system assures compliance.</p> <p>Manufacturer:</p> <p><b>DISC GmbH</b> Im Tiergarten 24 D-55411 Bingen am Rhein</p> <p>Date of issue of the declaration: <b>02-06-2005</b></p>	<p>avec 89 / 336 / CEE et 73 / 23 / EWG.</p> <p>Nous déclarons que le produit</p> <p><b>Optical Library PDD DISC 1000</b></p> <p>est conforme aux normes ou autres documents normatifs suivants:</p> <p><b>EN 55022: 1998 + A1 2000</b> Limites et méthodes de mesure des caractéristiques de perturbation radioélectriques produites par les appareils de traitement de l'information.</p> <p><b>EN 50024: 1998 + A1: 2001</b> Appareils de traitements l'information - caractéristiques d'immunité - limites et méthodes de mesure.</p> <p><b>EN 61000-3-2: 2000</b> <b>EN 61000-3-3: 1995 + A1: 2001</b></p> <p><b>EN 60950, UL 1950, CUL C22.2No.950</b> Sécurité des matériels de traitement de l'information.</p> <p>La système d'assurance de la qualité de <b>DISC</b> garantit la conformité.</p> <p>Fabricant:</p> <p><b>DISC GmbH</b> Im Tiergarten 24 D-55411 Bingen am Rhein</p> <p>Date d'établissement de la déclaration: <b>02.06.2005</b></p>

W. Beckmann  
Managing Director

H. Schellong  
Director Development

# DECLARATION OF CONFORMITY - DISC3000



EG-Konformitätserklärung	EC-Declaration of Conformity	CE-Déclaration de Conformité
<p>mit den Richtlinien 89 / 336 / EWG und 73 / 23 / EWG.</p> <p>Hiermit wird bestätigt, dass das Produkt</p> <p><b>PDD Optical Library DISC 3000</b></p> <p>mit den folgenden Normen bzw. normativen Dokumenten übereinstimmt:</p> <p><b>EN 55022: 1998 + A1: 2000</b> Grenzwerte und Messverfahren für Funkstörungen von informationstechnischen Einrichtungen.</p> <p><b>EN 50024: 1998 + A1: 2001</b> Störfestigkeit von informationstechnischen Einrichtungen.</p> <p><b>EN 61000-3-2: 2000</b> <b>EN 61000-3-3: 1995 + A1: 2001</b></p> <p><b>EN 60950, UL 1950, CUL C22.2No.950</b> Sicherheit von Einrichtungen der Informationstechnik.</p> <p>Das Qualitätssicherungssystem von <b>DISC</b> garantiert die Konformität.</p> <p>Hersteller:</p> <p><b>DISC GmbH</b> Im Tiergarten 24 D-55411 Bingen am Rhein</p> <p>Ausstellungsdatum: <b>02.06.2005</b></p>	<p>per 89 / 336 / EEC and 73 / 23 / EWG.</p> <p>This is to confirm that the product</p> <p><b>PDD Optical Library DISC 3000</b></p> <p>is in compliance with the following standards or other normative documents:</p> <p><b>EN 55022: 1998 + A1: 2000</b> Limits and methods of radio interference characteristics of information technology equipment.</p> <p><b>EN 50024: 1998 + A1: 2001</b> Information technology equipment-Immunity Characteristics- Limits and methods of measurement.</p> <p><b>EN 61000-3-2: 2000</b> <b>EN 61000-3-3: 1995 + A1: 2001</b></p> <p><b>EN 60950, UL 1950, CUL C22.2No.950</b> Safety of information technology equipment.</p> <p><b>DISC</b> quality assurance system assures compliance.</p> <p>Manufacturer:</p> <p><b>DISC GmbH</b> Im Tiergarten 24 D-55411 Bingen am Rhein</p> <p>Date of issue of the declaration: <b>02-06-2005</b></p>	<p>avec 89 / 336 / CEE et 73 / 23 / EWG.</p> <p>Nous déclarons que le produit</p> <p><b>Optical Library PDD DISC 3000</b></p> <p>est conforme aux normes ou autres documents normatifs suivants:</p> <p><b>EN 55022: 1998 + A1 2000</b> Limites et méthodes de mesure des caractéristiques de perturbation radioélectriques produites par les appareils de traitement de l'information.</p> <p><b>EN 50024: 1998 + A1: 2001</b> Appareils de traitements l'information - caractéristiques d'immunité - limites et méthodes de mesure.</p> <p><b>EN 61000-3-2: 2000</b> <b>EN 61000-3-3: 1995 + A1: 2001</b></p> <p><b>EN 60950, UL 1950, CUL C22.2No.950</b> Sécurité des matériels de traitement de l'information.</p> <p>La système d'assurance de la qualité de <b>DISC</b> garantit la conformité.</p> <p>Fabricant:</p> <p><b>DISC GmbH</b> Im Tiergarten 24 D-55411 Bingen am Rhein</p> <p>Date d'établissement de la déclaration: <b>02.06.2005</b></p>

W. Beckmann  
Managing Director

H. Schellong  
Director Development

# DECLARATION OF CONFORMITY - DISC4000



EG-Konformitätserklärung	EC-Declaration of Conformity	CE-Déclaration de Conformité
<p>mit den Richtlinien 89 / 336 / EWG und 73 / 23 / EWG.</p> <p>Hiermit wird bestätigt, dass das Produkt</p> <p><b>PDD Optical Library DISC 4000</b></p> <p>mit den folgenden Normen bzw. normativen Dokumenten übereinstimmt:</p> <p><b>EN 55022: 1998 + A1: 2000</b> Grenzwerte und Messverfahren für Funkstörungen von informationstechnischen Einrichtungen.</p> <p><b>EN 50024: 1998 + A1: 2001</b> Störfestigkeit von informationstechnischen Einrichtungen.</p> <p><b>EN 61000-3-2: 2000</b> <b>EN 61000-3-3: 1995 + A1: 2001</b></p> <p><b>EN 60950, UL 1950, CUL C22.2No.950</b> Sicherheit von Einrichtungen der Informationstechnik.</p> <p>Das Qualitätssicherungssystem von <b>DISC</b> garantiert die Konformität.</p> <p>Hersteller:</p> <p><b>DISC GmbH</b> Im Tiergarten 24 D-55411 Bingen am Rhein</p> <p>Ausstellungsdatum: <b>02.06.2005</b></p>	<p>per 89 / 336 / EEC and 73 / 23 / EWG.</p> <p>This is to confirm that the product</p> <p><b>PDD Optical Library DISC 4000</b></p> <p>is in compliance with the following standards or other normative documents:</p> <p><b>EN 55022: 1998 + A1: 2000</b> Limits and methods of radio interference characteristics of information technology equipment.</p> <p><b>EN 50024: 1998 + A1: 2001</b> Information technology equipment-Immunity Characteristics- Limits and methods of measurement.</p> <p><b>EN 61000-3-2: 2000</b> <b>EN 61000-3-3: 1995 + A1: 2001</b></p> <p><b>EN 60950, UL 1950, CUL C22.2No.950</b> Safety of information technology equipment.</p> <p><b>DISC</b> quality assurance system assures compliance.</p> <p>Manufacturer:</p> <p><b>DISC GmbH</b> Im Tiergarten 24 D-55411 Bingen am Rhein</p> <p>Date of issue of the declaration: <b>02-06-2005</b></p>	<p>avec 89 / 336 / CEE et 73 / 23 / EWG.</p> <p>Nous déclarons que le produit</p> <p><b>Optical Library PDD DISC 4000</b></p> <p>est conforme aux normes ou autres documents normatifs suivants:</p> <p><b>EN 55022: 1998 + A1 2000</b> Limites et méthodes de mesure des caractéristiques de perturbation radioélectriques produites par les appareils de traitement de l'information.</p> <p><b>EN 50024: 1998 + A1: 2001</b> Appareils de traitements l'information - caractéristiques d'immunité - limites et méthodes de mesure.</p> <p><b>EN 61000-3-2: 2000</b> <b>EN 61000-3-3: 1995 + A1: 2001</b></p> <p><b>EN 60950, UL 1950, CUL C22.2No.950</b> Sécurité des matériels de traitement de l'information.</p> <p>La système d'assurance de la qualité de <b>DISC</b> garantit la conformité.</p> <p>Fabricant:</p> <p><b>DISC GmbH</b> Im Tiergarten 24 D-55411 Bingen am Rhein</p> <p>Date d'établissement 7e la declaration: <b>02.06.2005</b></p>

W. Beckmann  
Managing Director

H. Schellong  
Director Development

# DECLARATION OF CONFORMITY - DISC7000



EG-Konformitätserklärung	EC-Declaration of Conformity	CE-Déclaration de Conformité
<p>mit den Richtlinien 89 / 336 / EWG und 73 / 23 / EWG.</p> <p>Hiermit wird bestätigt, dass das Produkt</p> <p><b>PDD Optical Library DISC 7000</b></p> <p>mit den folgenden Normen bzw. normativen Dokumenten übereinstimmt:</p> <p><b>EN 55022: 1998 + A1: 2000</b> Grenzwerte und Messverfahren für Funkstörungen von informationstechnischen Einrichtungen.</p> <p><b>EN 55024: 1998 + A1: 2001</b> Störfestigkeit von informationstechnischen Einrichtungen.</p> <p><b>EN 61000-3-2: 2000</b> <b>EN 61000-3-3: 1995 + A1: 2001</b></p> <p><b>EN 60950, UL 1950, CUL C22.2No.950</b> Sicherheit von Einrichtungen der Informationstechnik.</p> <p>Das Qualitätssicherungssystem von <b>DISC</b> garantiert die Konformität.</p> <p>Hersteller:</p> <p><b>DISC GmbH</b> Im Tiergarten 24 D-55411 Bingen am Rhein</p> <p>Ausstellungsdatum: <b>02.06.2005</b></p>	<p>per 89 / 336 / EEC and 73 / 23 / EWG.</p> <p>This is to confirm that the product</p> <p><b>PDD Optical Library DISC 7000</b></p> <p>is in compliance with the following standards or other normative documents:</p> <p><b>EN 55022: 1998 + A1: 2000</b> Limits and methods of radio interference characteristics of information technology equipment.</p> <p><b>EN 55024: 1998 + A1: 2001</b> Information technology equipment-Immunity Characteristics- Limits and methods of measurement.</p> <p><b>EN 61000-3-2: 2000</b> <b>EN 61000-3-3: 1995 + A1: 2001</b></p> <p><b>EN 60950, UL 1950, CUL C22.2No.950</b> Safety of information technology equipment.</p> <p><b>DISC</b> quality assurance system assures compliance.</p> <p>Manufacturer:</p> <p><b>DISC GmbH</b> Im Tiergarten 24 D-55411 Bingen am Rhein</p> <p>Date of issue of the declaration: <b>02-06-2005</b></p>	<p>avec 89 / 336 / CEE et 73 / 23 / EWG.</p> <p>Nous déclarons que le produit</p> <p><b>Optical Library PDD DISC 7000</b></p> <p>est conforme aux normes ou autres documents normatifs suivants:</p> <p><b>EN 55022: 1998 + A1 2000</b> Limites et méthodes de mesure des caractéristiques de perturbation radioélectriques produites par les appareils de traitement de l'information.</p> <p><b>EN 55024: 1998 + A1: 2001</b> Appareils de traitements l'information - caractéristiques d'immunité - limites et méthodes de mesure.</p> <p><b>EN 61000-3-2: 2000</b> <b>EN 61000-3-3: 1995 + A1: 2001</b></p> <p><b>EN 60950, UL 1950, CUL C22.2No.950</b> Sécurité des matériels de traitement de l'information.</p> <p>La système d'assurance de la qualité de <b>DISC</b> garantit la conformité.</p> <p>Fabricant:</p> <p><b>DISC GmbH</b> Im Tiergarten 24 D-55411 Bingen am Rhein</p> <p>Date d'établissement de la déclaration: <b>02.06.2005</b></p>

W. Beckmann  
Managing Director

H. Schellong  
Director Development





# APPENDIX A: TECHNICAL DATA

- Technical Specifications
- OEM Specifications
- Slot Upgrades

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## TECHNICAL SPECIFICATIONS

	DISC1000	DISC3000	DISC4000	DISC7000
<b>Interfaces</b>				
<b>RS232</b>				
RS232 ID	0	0	0	0
Baud rate	9600 Baud	9600 Baud	9600 Baud	9600 Baud
Number of start bits	1	1	1	1
Number of data bits	8	8	8	8
Number of stop bits	1	1	1	1
Parity check	No parity	No parity	No parity	No parity
ID Range	0–15	0–15	0–15	0–15
<b>U160 SCSI LVD</b>				
SCSI Robotics ID	0	0	0	0
ID Range	1–2	1–7 8–15 optional	1–7 8–15 optional	1–7 8–15 optional
<b>Operating Conditions</b>				
Ambient temperature	10 °C – 37 °C [50 °F – 99 °F]	10 °C – 37 °C [50 °F – 99 °F]	10 °C – 37 °C [50 °F – 99 °F]	10 °C – 37 °C [50 °F – 99 °F]
Operating temperature	[50 °F – 91,4 °F]	[50 °F – 91,4 °F]	[50 °F – 91,4 °F]	[50 °F – 91,4 °F]
Gradient of temperature	11 °C/h [19,8 °F/h]	11 °C/h [19,8 °F/h]	11 °C/h [19,8 °F/h]	11 °C/h [19,8 °F/h]
Relative humidity, operating	10% – 68% non condensing	10% – 68% non condensing	10% – 68% non condensing	10% – 68% non condensing
<b>Power Supply</b>				
Line voltage	90 V – 120 V/4 A	90 V – 120 V/5 A	90 V – 120 V/5 A	90 V – 120 V/10 A
Frequency range	220 V – 240 V/4 A	220 V – 240 V/4 A	220 V – 240 V/4 A	220 V – 240 V/5 A
Power consumption, normal	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power consumption, max.	140 W 345 W	140 W 345 W	155 W 450 W	180 W 920 W

	DISC1000	DISC3000	DISC4000	DISC7000
Dimensions and Weight				
Width JB / JB incl. Stands Height Depth Weight (without media)	300 mm 410 mm 680 mm 35 kg	365/620,5 mm 780 mm 730 mm 54 kg	365/620,5 mm 980 mm 730 mm 72 kg	365/835 mm 1500 mm 730 mm 95 kg

## FUSES

Internally used Fuses	PCB	Silkscreen Overlay Top Side
Mount Fuse 5A/63V quick-acting	Main Controller	S11; S12
Mount Fuse 2A/63V quick-acting	Main Controller	S13
Mount Fuse 2A/125V slo-blo	LKU Board	S11

## OEM SPECIFICATIONS

	DISC1000	DISC3000	DISC4000	DISC7000
Robotics				
Media Exchange Time (avg) Reliability (MSBF)	2 second 2.500.000 cycles	3 second 2.500.000 cycles	4 second 2.500.000 cycles	6 second 2.500.000 cycles
Drives				
Read/write drive Professional Disc for Data	DVD, PDD, BD	DVD, PDD, BD	DVD, PDD, BD	DVD, PDD, BD

## SLOT UPGRADES

DISC DISC1000 , DISC3000 , DISC4000 and DISC7000 Optical Libraries are available in two capacities:

DISC1000U - 45 media slots  
DISC1000 - up to 105 media slots

DISC3000U - 145 media slots  
DISC3000 - up to 270 media slots

DISC4000U - 145 media slots  
DISC4000 - up to 400 media slots

DISC7000U - 510 media slots  
DISC7000 - up to 690 media slots

The basic Optical Library is the DISCx000 version, the upgrade to full capacity is optional.

Slot upgrades must be completed in the factory or on site by specially trained service staff. The slot upgrade is not available as a standard field upgrade kit.

For more information about slot upgrades, contact your DISC sales office.

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# Index

## A

agency approvals 68, 71

## B

ban on arbitrary reversions and changes 15

## C

cable length 37

cable requirements 37

checking the delivery 32

components 20, 21, 22, 23

connecting line voltage 40

connecting the SCSI interface 39

connecting the serial interface 38

connecting to a host computer 38

## D

data security 17

declaration of conformity - DISC1000 70

declaration of conformity - DISC3000 71

declaration of conformity - DISC4000 72

declaration of conformity - DISC7000 73

declaration, FCC 69

drive SCSI IDs 37

DVD-R media 16

DVD-RAM media 16

## E

electromagnetic compatibility 16

equipment 23

exposed media, handling 48

## F

FCC declaration 69, 70, 71, 72

fire and shock hazard 15

front 25

fuses 15, 77

## **H**

- handling exposed media 47
- handling media 48
- handling packs 48
- host computer, connecting to 38

## **I**

- importing and exporting media 48
- inserting packs 49
- installed equipment 24
- intended use 14

## **J**

- Optical Library placement 35
- Optical Library, operating 36
- Optical Library, powering on 46

## **K**

- keyboard 26

## **L**

- LCD 26
- line voltage, connecting 40

## **M**

- mailslot 48
- media 17
- media, handling 47
- media, handling exposed 47
- media, importing and exporting 48
- mode, service 64
- model designation 24
- modes of operation 36
- mounting the stands 34

## **N**

- DISCx000 components 20, 21, 22, 23
- DISCx000 front 25
- DISCx000 rear 27, 28



## O

- OEM specifications 77
- opening the unit 15
- operating the Optical Library 47
- operation modes 36
- overview 18

## P

- packs, handling 47
- packs, inserting 50
- packs, removing 49
- packs, using 49
- powering on the Optical Library 46

## R

- rear 27, 27
- removing packs 49
- removing the transportation fixtures 33
- repairs 14
- RS232 mode 36

## S

- safety 15
- safety and notices 15
- safety instructions 15
- SCSI cable length 37
- SCSI cable requirements 37
- SCSI interface, connecting 39
- SCSI mode 37
- serial interface, connecting 38
- service mode 64
- setting drive SCSI IDs 37
- setup 30
- specifications 77
- specifications, OEM 77
- specifications, technical 76
- stands 34

## T

- technical data 74
- technical specifications 76
- transportation fixtures 33

## **U**

use of interjective terms 14

user interface 54

using packs 49