

Chapter 2 : " Getting Started "

General Overview

This chapter helps you get ready to use the Disk Array. It gives you :

- Unpacking & Checklist
- Choosing a place for Disk Array
- Identifying Parts of Disk Array
- Power Source
- Installing the Hard Disk Drives
- Setup active terminator
- Host Linkage
- Power-On and Self-test
- LED Display and Function Keys
 - LCD Status Display
- Clear HDD fail beeper

The following illustrations will help you read the further sections.

Special Note :

RAID should never be considered a replacement for doing regular backup. It's highly recommended to conduct a backup strategy for critical data.

Unpacking & Checklist

Before unpacking your Disk Array , prepare a clean and stable place to put the contents of your Disk Array's shipping container on. Altogether, you should find the following items in the package :

- The Disk Array
- One AC power cord
- One External SCSI cable
- Keys (For HDD Trays)
- User Manual
- RS-232 Cable
- Active Terminator

Remove all the items from the carton. If anything is missing or broken , please inform your dealer immediately. Save the cartons and packing materials that came with the Disk Array. Use these materials for shipping or transporting the Disk Array.

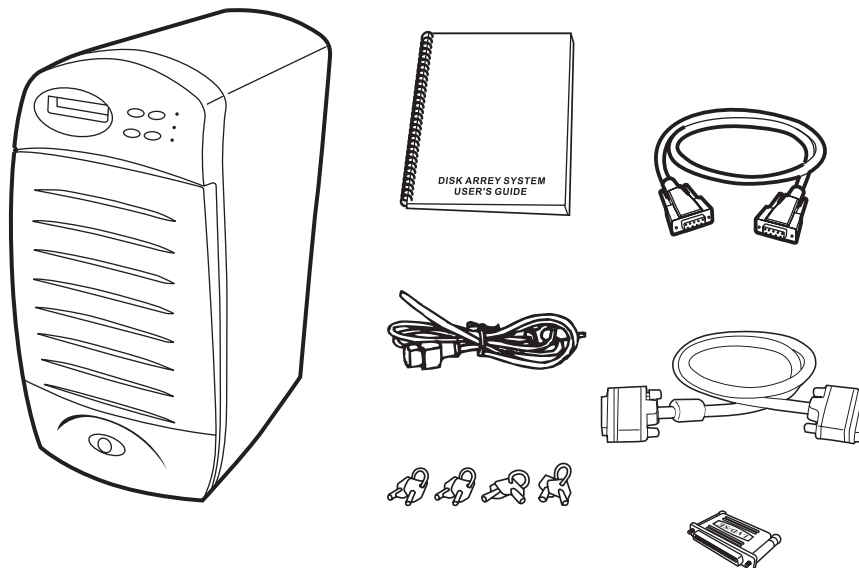


Figure : Checklist

Choosing a place for Disk Array

When selecting a place to set up your Disk Array, be sure to follow the guidelines as below:

- Place on a flat and stable surface.
- Use a stand that supports at least 50kgs for this Disk Array. (HDD included)
- Place the Disk Array close enough to the computer for the Disk Array's External SCSI cable to reach it.
- Use a grounded wall outlet.
- Avoid an electrical outlet controlled by wall switches or automatic timers. Accidental disruption of the power source may wipe out data in the memory of your computer or Disk Array.
- Keep the entire system away from potential sources of electromagnetic interference, such as loudspeakers, cordless telephones, etc.
- **Caution !**
Avoid direct sunlight, excessive heat, moisture, or dust.

Identifying Parts of the Disk Array

Front View

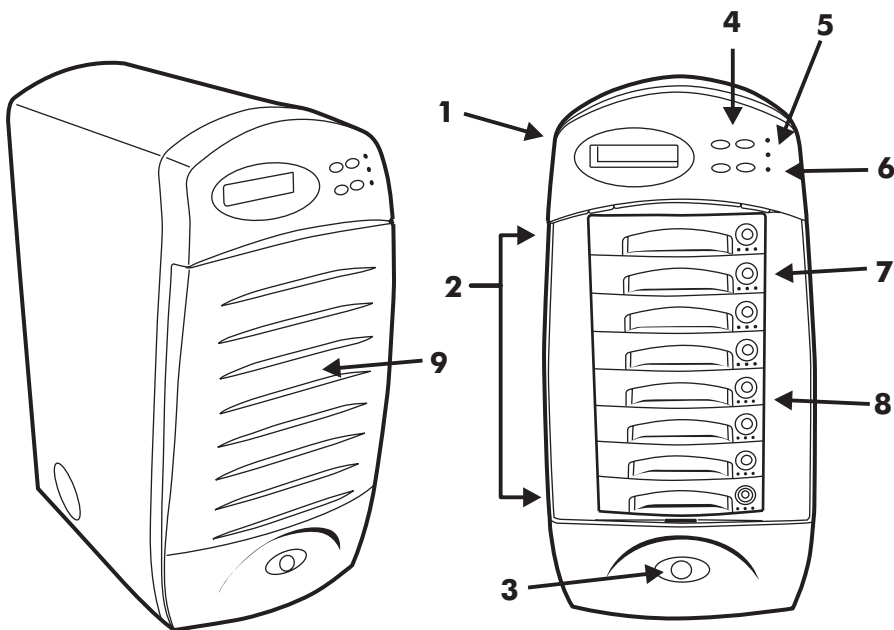


Figure : Front View

1. LCD Status Display Panel
2. HDD Trays 1 ~ 8
3. Power Supply Status Indicator (light up Green / Red)
4. Function Keys (↑ , ↓ , Enter , ESC)
5. Power-On Indicator (PWR Unit 1 , PWR Unit 2)
6. Host Computer Access Indicator
7. HDD Tray Lock (Lock / Unlock)
8. HDD Status Indicator
(From left to right: Error (Red), Access (Yellow), Power-On (Green))
9. Front Cover

Rear View

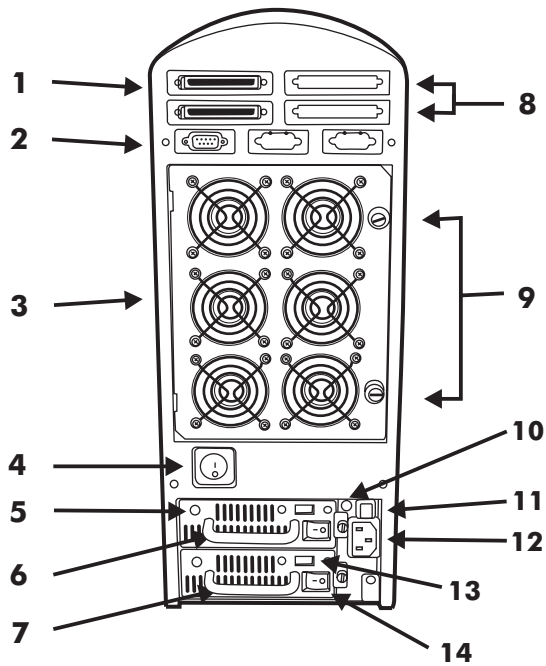


Figure : Rear View

1. Host channel adapter Port
2. RS232 Adapter (Terminal Port)
3. Cooling Fans
4. Power Supply Unit Switch (On / Off)
5. Power Supply Unit 1 LED Indicator (Green)
6. Power Supply Unit 1 (Upper)
7. Power Supply Unit 2 (Lower)
8. Reserved #2 Host Channel Port
9. Fan Door Screws
10. Power Supply fail Indicator (RED)
11. Power Supply Alarm Reset Switch
12. AC Power Source Input Socket
13. AC Voltage Select Switch (115V / 230V)
14. Power Supply Unit Switch (On / Off)

Power Source

Choosing a Working Voltage

The system can run either on AC 115V (+/10%) or AC 230V (+/10%), Slide the AC voltage select switch on both of the two power supply units to the correct position which corresponds with the wall outlet supply voltage.

Warning !

Wrong AC Voltage input will harm the power supply and cause serious damage to the Disk Array.

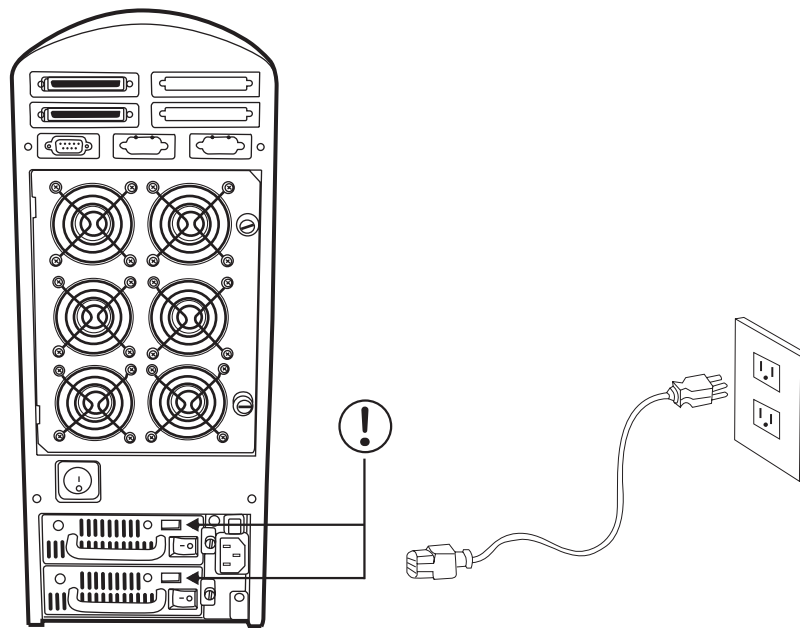


Figure : Power Source

! This Disk Array must be grounded

This Disk Array is supplied with an AC power cord equipped with a 3-wire grounding type plug. This is a safety feature and it is important to only use a 3-wire grounded mains power cord.

Installing the Hard Disk Drives

Step 1 : Open the front cover.

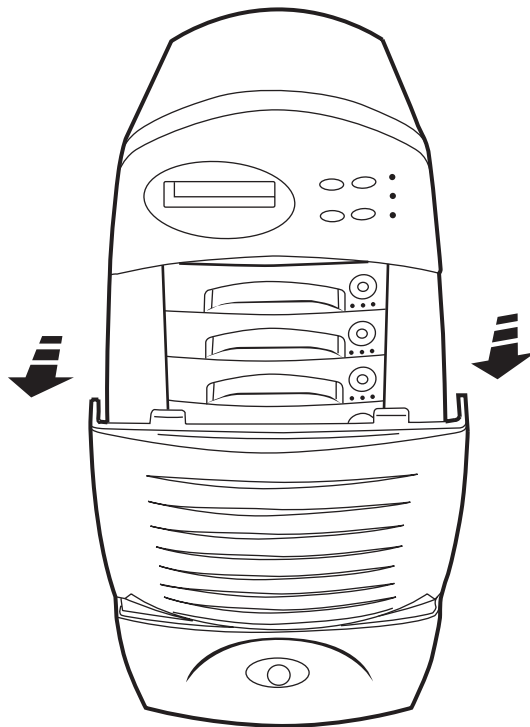


Figure : Installing HDD step 1

Getting Started

- Step 2 : Unlock the HDD tray by turning the Key-lock to the correct position.
- Step 3 : Gently Pull out the HDD tray.

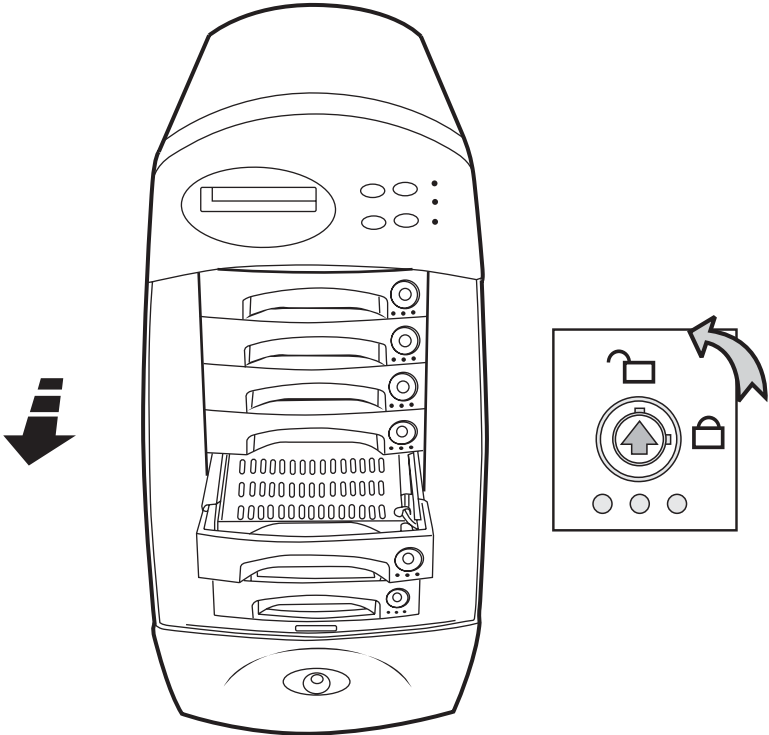


Figure : Installing HDD step 2, 3

Getting Started

Step 4 : Insert HDD into the tray

Step 5 : Screw in the hard drive.
(Use the correct size, type and thread)

Step 6 : Cabling, Connect the Data cable , SCSI ID cable
& Power cable.

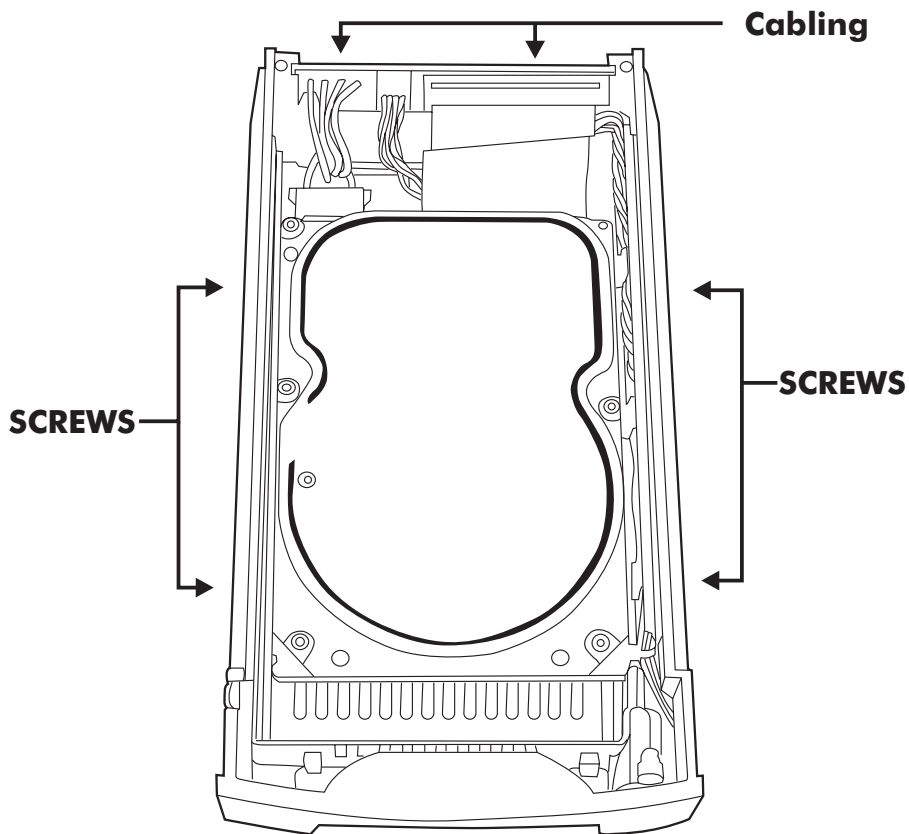


Figure : Installing HDD step 4, 5, 6

Getting Started

Step 7 : Gently slide in the HDD tray.

Step 8 : Lock the HDD tray. When powered on the Green LED will light up.

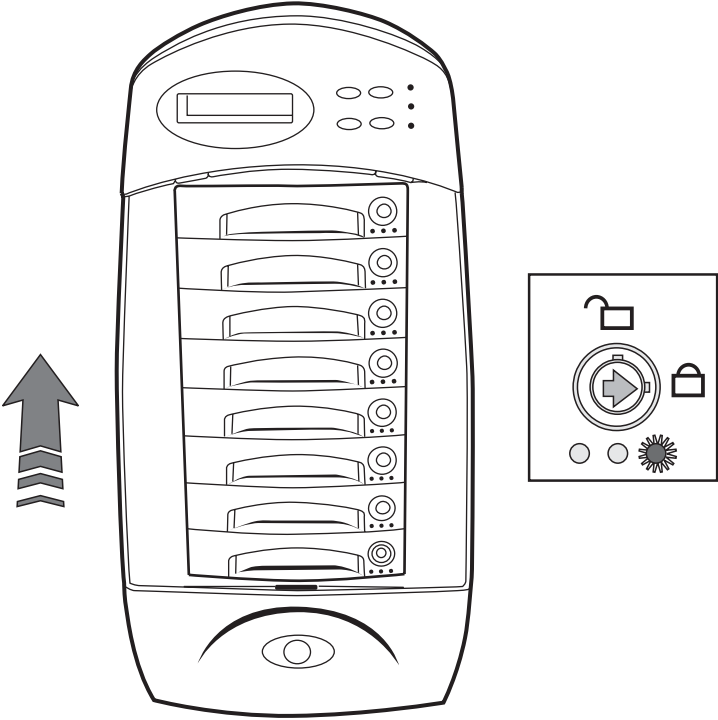


Figure : Installing HDD step 7, 8

How to Setup Active Terminator

For better data integrity, we suggest you always add an active terminator on the Disk Array when it is at the end of the SCSI bus.

Plug-in the Terminator before Power-On :

You can find two ports for the host channel adapter on the back of Disk Array. You can connect the top one with your Host Computer, and plug in the active terminator on the second one.

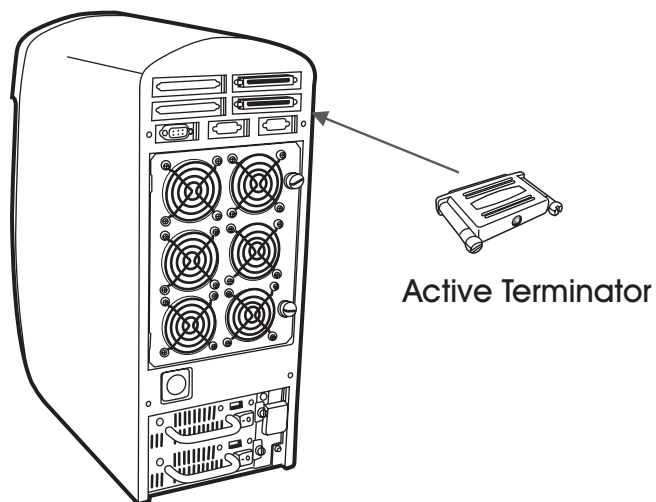


Figure : Active Terminator

Host Linkage

With the HDD(s) installed correctly, you are ready to connect the Disk Array to your Host computer.

Use a shielded twisted-pair SCSI cable to connect your Host computer to the Disk Array's built-in 68 pin SCSI adapter port.

Connect the Host computer as shown below :

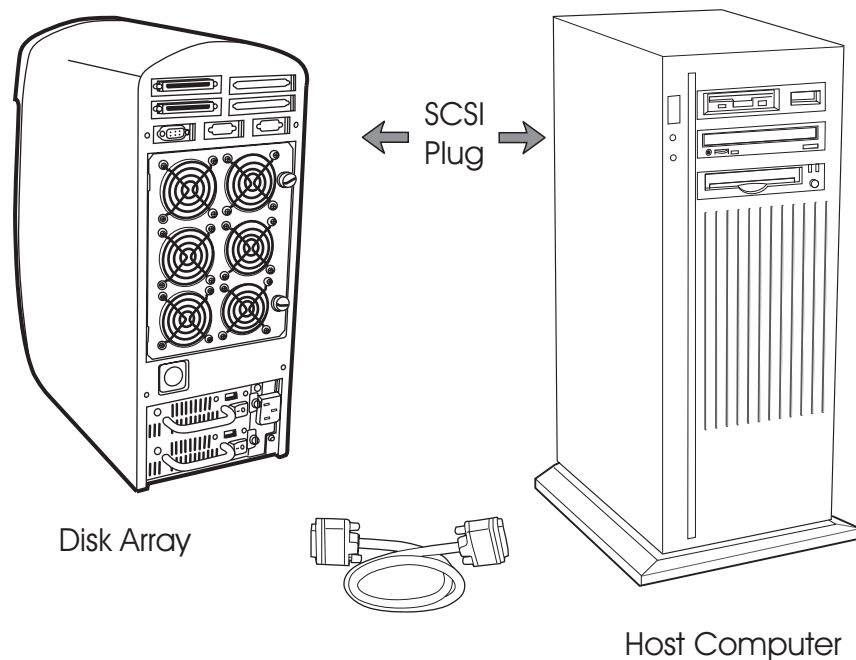


Figure : Host linkage

Caution !

For safety reasons, make sure the Disk Array and Host Computer are turned off when you plug-in the SCSI cable.

Power-On and Self-Test

When you connect the Disk Array to the Host computer, You should press the ON/OFF Power Supply Switch on both of the power supply Hot-Swap units and the Main Switch. It will turn the Disk Array on and the Self-Test will be started automatically.

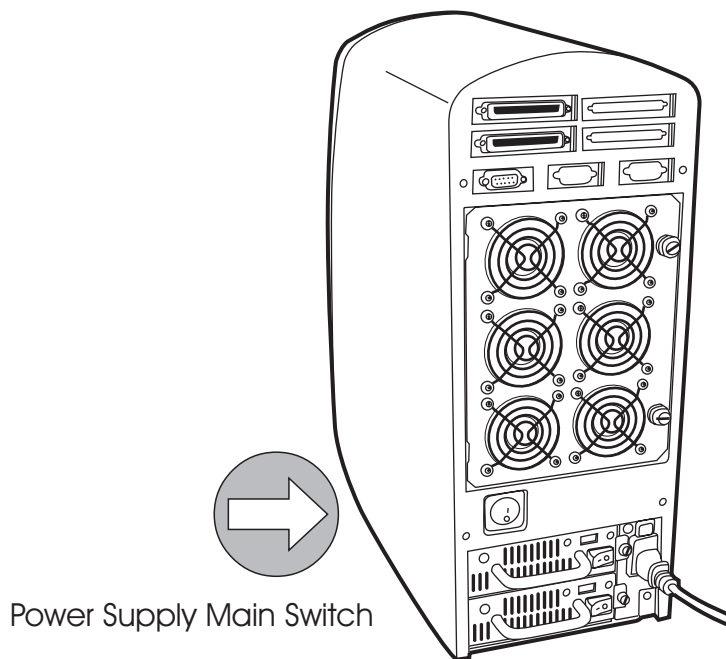


Figure : Power-On & Self-Test

LED Display & Function Keys

LED Display

Shown below is the LED Display. Please refer to the illustration, the LEDs inform you of the Disk Array's current operating status. Upon activating a certain function, the corresponding LED indicator should turn on indicating that the feature is engaged.

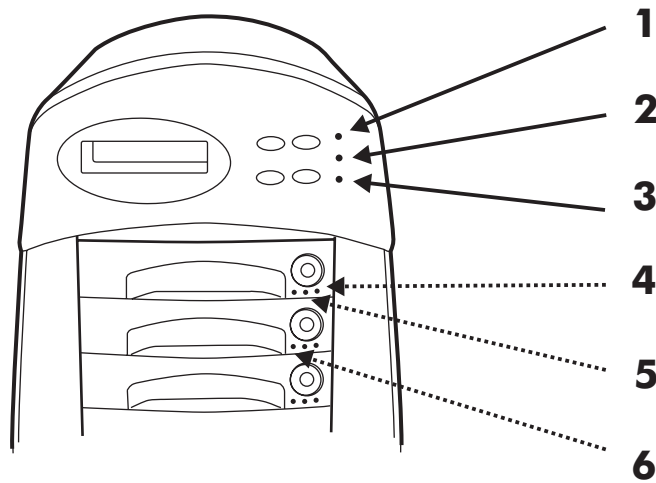


Figure : LED Display

LED	Descriptions
1. Power Unit 1 Indicator	light up : "Green" , it lights when the Power Unit 1 is plugged and operating functionally.
2. Power Unit 2 Indicator	light up : "Green" , it lights when the Power Unit 2 is plugged and operating functionally.
3. Host Computer Access Indicator	light up : "Yellow" , Indicates Host computer is currently accessing the Disk Array
4. HDD Power-On Indicator	light up : "Green" , It lights when the HDD frame is locked and Power-On
5. HDD Access Indicator	light up : "Yellow" , when HDD is accessed
6. HDD Error Indicator	light up : "Red" , when HDD is not installed or HDD error

Function Keys

The four function keys at the top of the front panel perform the following functions :

(↑) Up Arrow / Right Arrow	Use to scroll the cursor Upward / Rightward
(↓) Down Arrow / Left Arrow	Use to scroll the cursor Downward / Leftward
(Enter)	Use to confirm a selected item
(ESC)	Use to exit a selection

LCD Status Panel

Located the LCD panel, the LCD status panel informs you of the Disk Array's current operating status at a glance. Upon activating a certain function, a symbol or icon corresponding to that function will appear in the display window. The symbol will remain in the display window indicating the status of the Disk Array.

Identifying the status on the LCD

The following illustration shows the symbols (characters) been used and their representation.

A description of each of the symbols in LCD display window :

O	On-line and functional
R	Error occur
I	Identifying Disk Drive
S	Spare Disk Drive
X	Disk Drive not installed
W	Warning : Disk Drive with too many Bad Sectors
J	JBOD Configuration

Example of the LCD status display window :

OOOOOSXX R5 ID: 0

This informs you :

- a. HDD 1 ~ HDD 5 : Online
- b. HDD 6 : It is a Spare disk drive
- c. HDD 7 ~ HDD 8 : Not installed
- d. RAID Level : In " RAID Level 5 "
- e. SCSI ID : In " ID# 0 "

Clear HDD Fail Beeper

The disk drive fail beeping can be stop by push the (↑) and (↓) simultaneously twice. But you should remember to replace the drive. Next time when error happen the beeping will still be available

