

## 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
- Host Linkage
- Power-On and Self-test
- LED Display and Function Keys
- LCD Status Display

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
- AC power cord
- One External SCSI cable
- Keys ( For HDD Trays )
- User Guide
- 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.

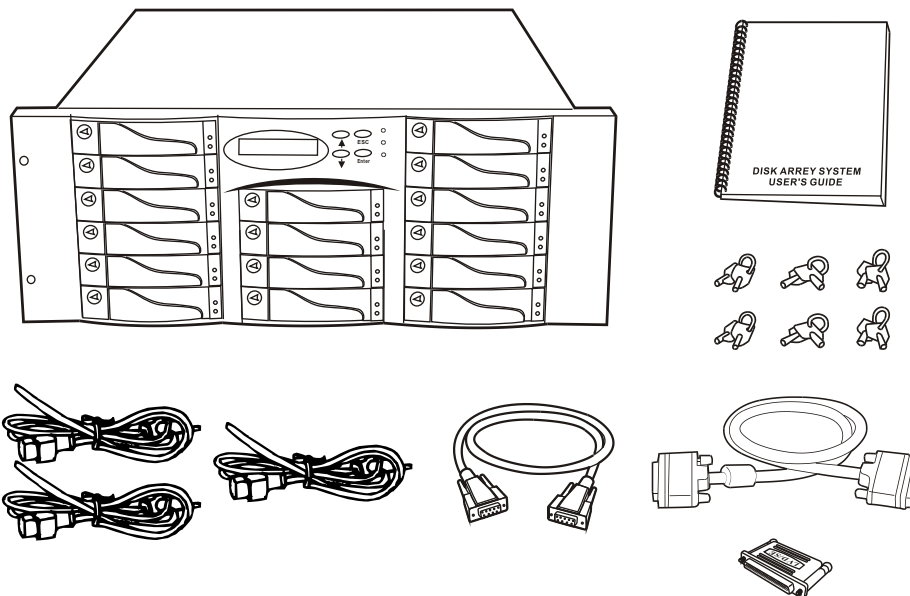


Figure : Checklist

### 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 50 kgs 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

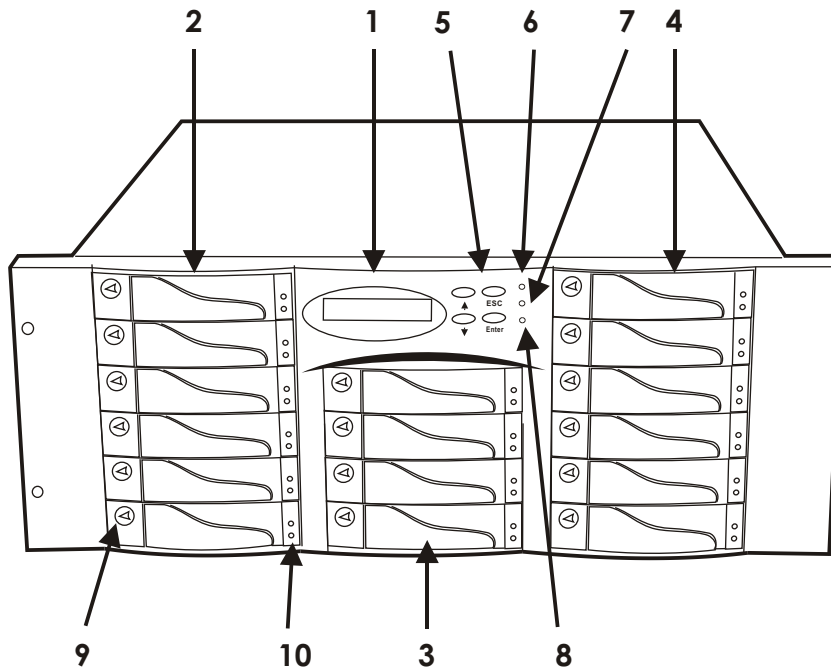


Figure : Front View

1. LCD Status Display Panel
2. HDD Trays 1 ~ 6 (From Up to Down)
3. HDD Trays 7 & 10
4. HDD Trays 11 ~16
5. Function Keys ( ↑ , ↓ , Enter , ESC )
6. Power-On Indicator ( Green )
7. Power Fail Indicator ( Red )
8. Host Computer Access Indicator ( Yellow )
9. HDD Tray Lock ( Lock / Unlock )
10. HDD Status Indicator  
( Error (Red), Access (Yellow), Power-On (Green))

REAR VIEW

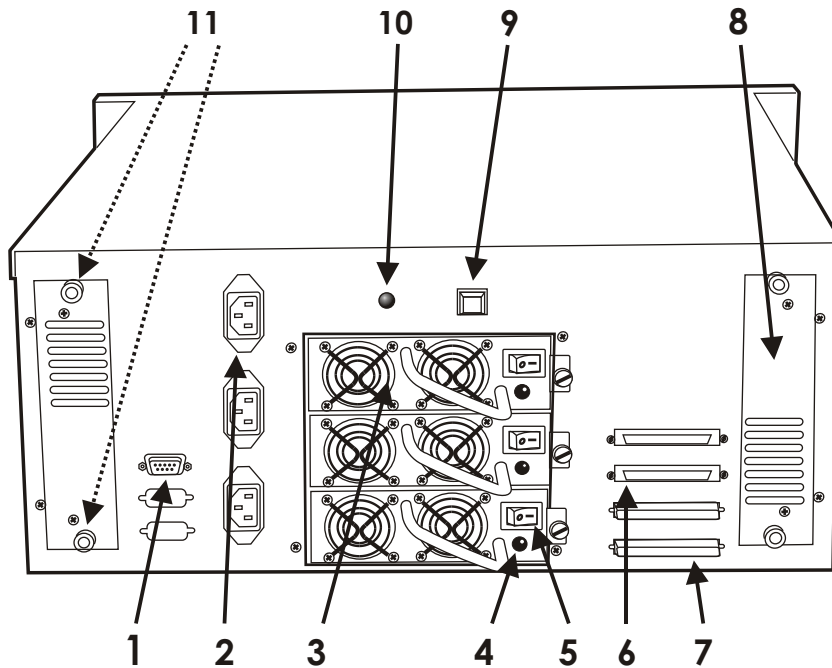


Figure : Rear View

1. RS-232 Adapter (Terminal Port)
2. AC Power Input Sockets #1~3 ( from up to down )
3. Power Supply Unit #1~3 ( from up to down )
4. Power Supply "Power-On" Indicator (Green)
5. Power Supply Unit On / Off Switch (0 / I)
6. SCSI Channel Port ----- ( Host 1 )
7. SCSI Channel Port ----- ( Host 2 )
8. Cooling Fan
9. Power Supply "Alarm" Reset Button
10. Power Supply Fail Indicator (Red)
11. Cooling Fan Screws

### Power Source

#### Working Voltage

The system can run either on AC 115V (+/-10%) or AC 230V (+/-10%) environment.

The system's power supply provide full range AC electricity input from AC 90Volt to 260Volt.

#### Warning !

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

#### ! 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.

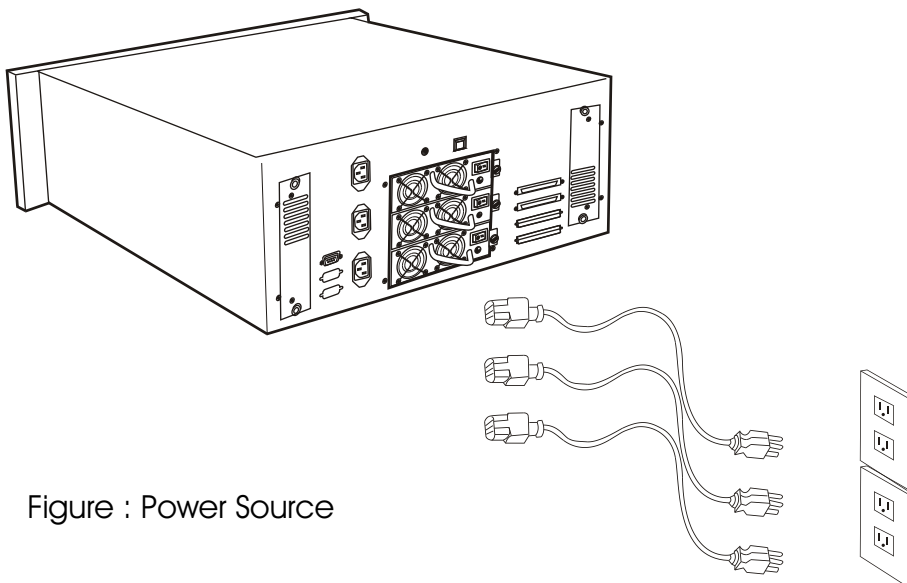


Figure : Power Source

### Installing the Hard Disk Drives

Step 1 : Unlock the HDD tray by turning the Key-lock to the correct position.

Step 2 : Gently Pull out the HDD tray.

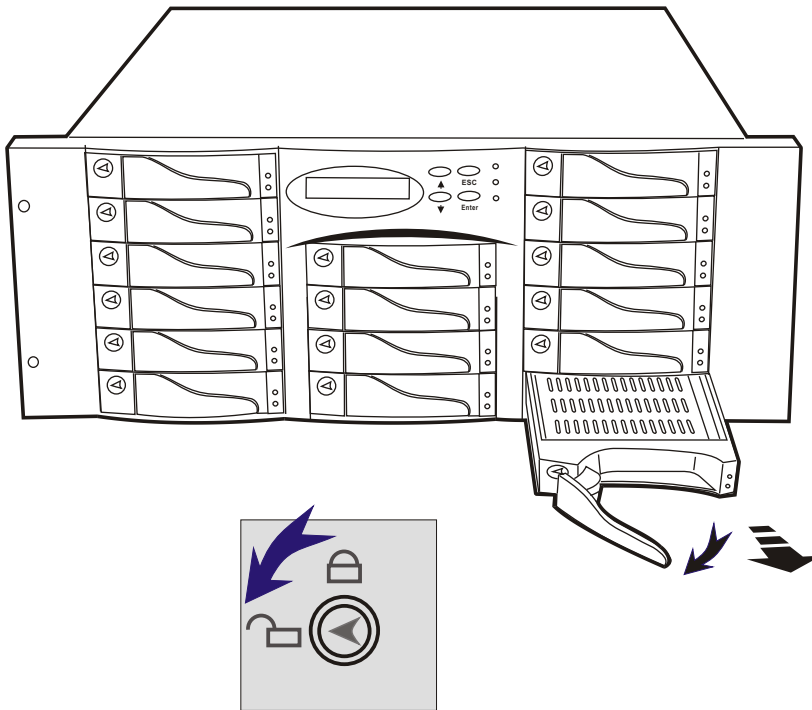


Figure : Installing HDD step 1, 2

Step 3 : Insert HDD into the tray

Step 4 : Screw in the hard drive.  
( Use the correct size, type and thread )

Step 5 : Cabling, Connect the Data cable and Power cable.

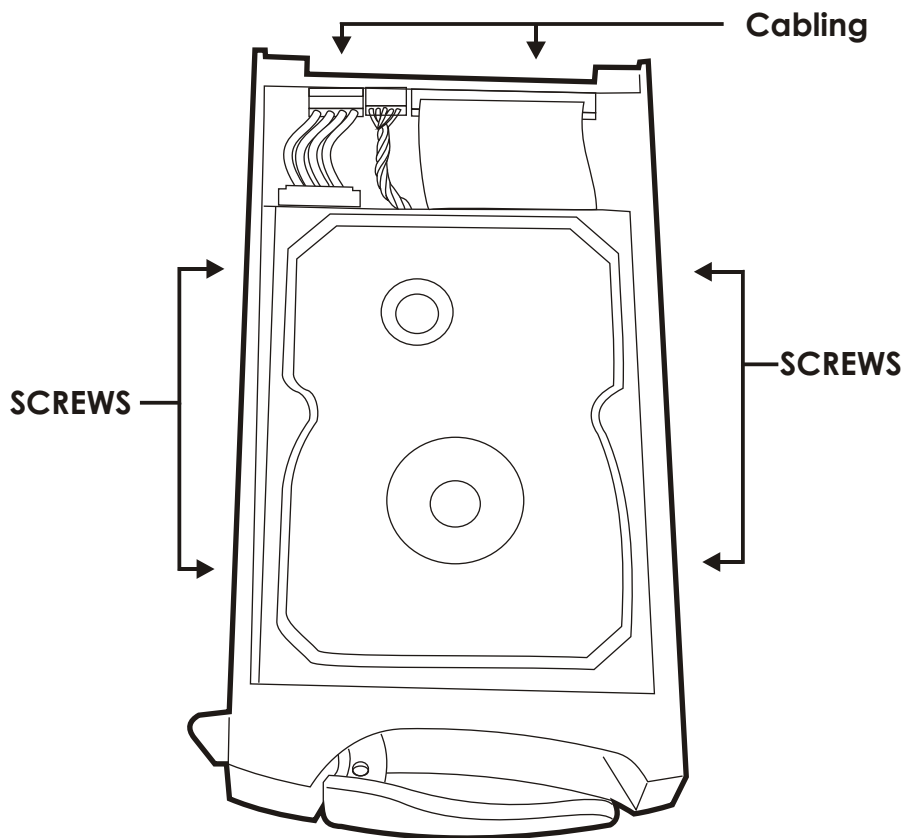


Figure : Installing HDD step 3, 4, 5



Step 6 : Gently slide in the HDD tray.

Step 7 : Lock the HDD tray. When powered on, the Green LED will light up.

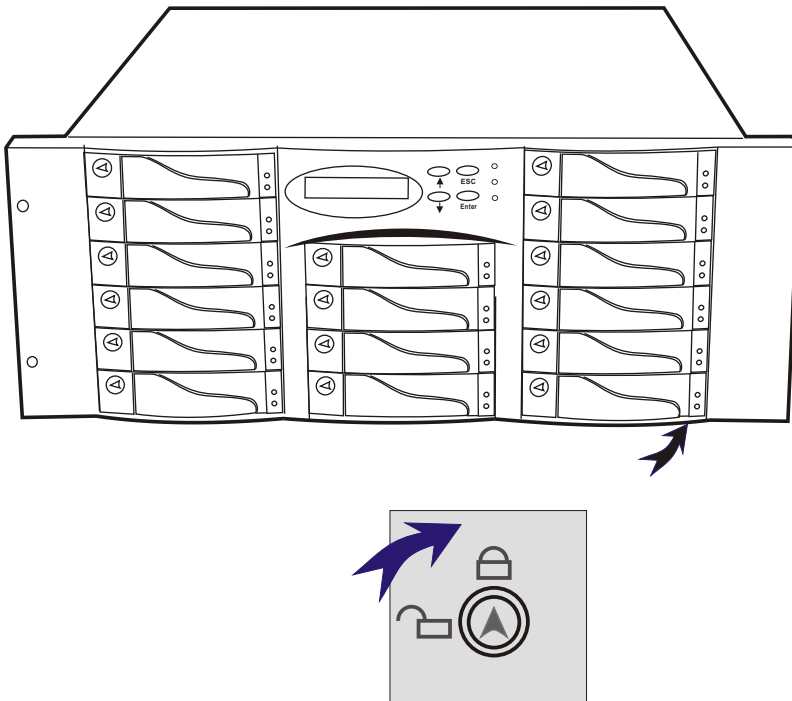


Figure : Installing HDD step 6, 7

### 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 :

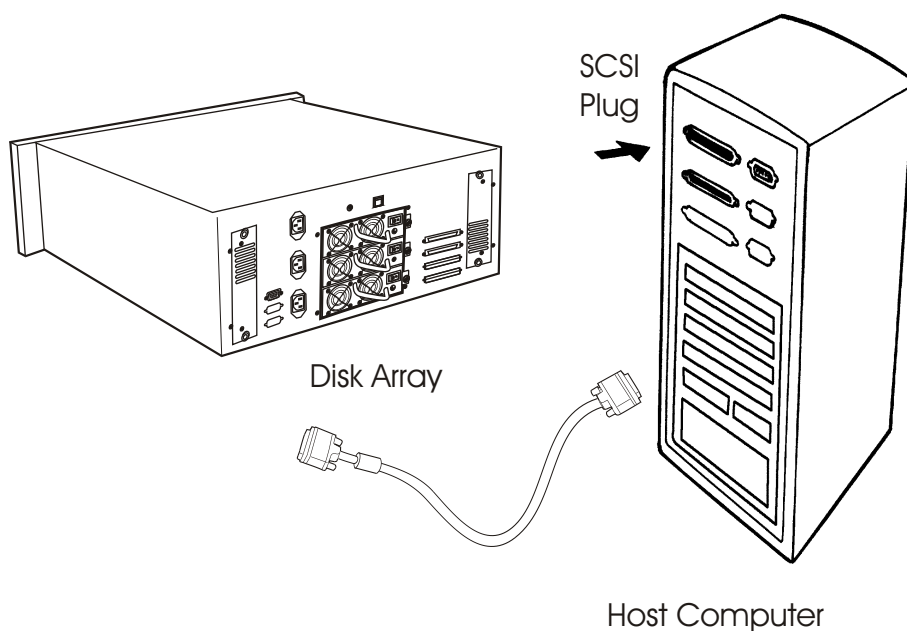


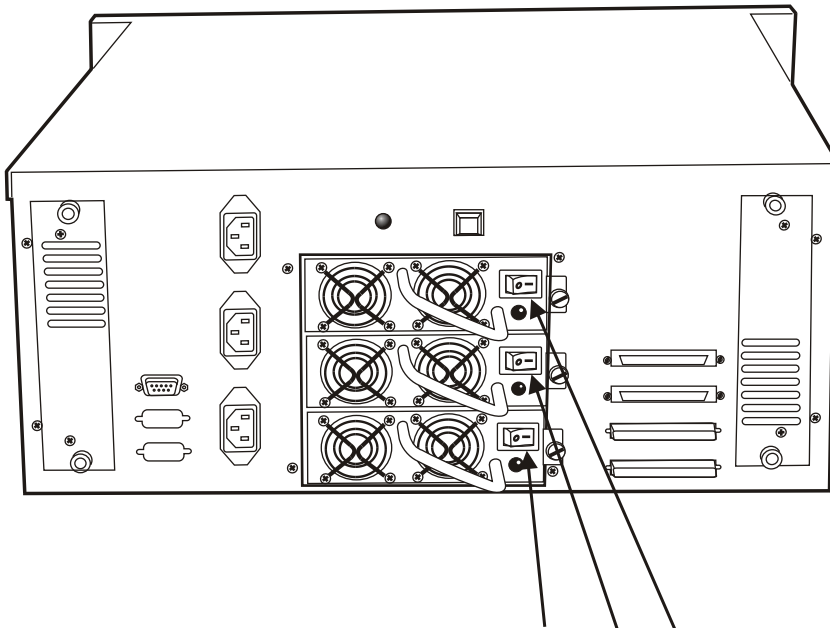
Figure : Host linkage

#### **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 Switch ( o / I ) on all of the power supply Hot-Swap units and It will turn the Disk Array on and the Self-Test will be started automatically.



Power Supply Unit's On / Off Switch

## 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.

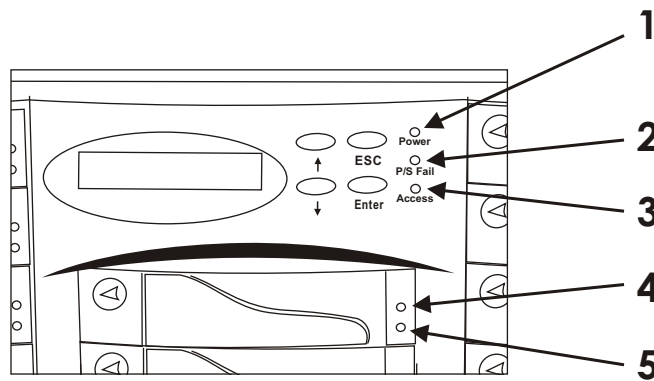


Figure : LED Display

LED	Descriptions
1. Power On Indicator	light up : " <b>Green</b> " , it lights when the Power source is plugged and system is on.
2. P/S Fail Indicator (Power Supply Fail)	light up : " <b>Red</b> " , it lights when any one of the Power Unit failed.
3. Host Computer Access Indicator	light up : " <b>Yellow</b> " , Indicates Host computer is currently accessing the Disk Array
4. HDD Power-On Indicator	light up : " <b>Green</b> " , It lights when the HDD tray is locked and Power-On
HDD Error Indicator	light up : " <b>Red</b> " , when the HDD not installed or error.
5. HDD Access Indicator	light up : " <b>Yellow</b> " , when HDD is accessed

### 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 (Fault)
I	Identifying Disk Drive
S	Spare Disk Drive
X	Disk Drive not installed
W	Warning : Disk Drive with too many Bad Sectors
A	Add new Disk Drive when On-Line Expansion

Example of the LCD status display window :

**OOOOOOOOOOOOSXX**

This informs you :

- a. HDD 1 ~ HDD 12 : On-line
- b. HDD 13&14 : Hot-Spare disk drive
- c. HDD 15&16 : Not installed