

Summary Comparison of RAID Levels

RAID Level	Common Name	Description	Array's Capacity	Data Reliability	Data Transfer Capacity
0	Disk Striping	Data distributed across the disks in the array. No redundant information provided.	[N] disks	Low	Very High
1	Mirroring	All data Duplicated	1 * disks	Very High	High
3	Parallel Transfer Disks with Parity	Data sector is subdivided and distributed across all data disk. Redundant information stored on a dedicated parity disk.	[N-1] disks	Very High	Highest of all listed alternatives
5	Independent Access Array with Rotating Parity	Data sectors are distributed as with disk striping. redundant information is interspersed with user data.	[N-1] disks	Very High	Very High

Multi-SCSI Format support

The Disk Array provides one LVD Ultra 2 SCSI channel for connecting to your host system. With proper cabling, it may support Narrow or Wide; Standard, Fast or Ultra SCSI formats. (single ended)

Overall cable length

For secure data transfer , please refer to the cable length limitations as below :

- * Cable length = External Host cables length + Internal Host cable length
- * Standard Disk Array External cable length = 90cm (3 ft)
- * Standard Disk Array Internal cable length = 20cm

SCSI Type	Clock Rate	Data Rate	Maximum Cable Length	Cable Required	Remark
LVD Ultra 2 (16 bit)	40 MHZ	80 MB/sec	12m	HPD 68--- HPD 68 pin	
Ultra wide (16 bit)	20 MHZ	40 MB/sec	2m	HPD 68--- HPD 68 pin	
Ultra SCSI (8 bit)	20 MHZ	20 MB/sec	2m	HPD 68--- HPD 50 pin	
Narrow SCSI2 (8 bit)	10 MHZ	10 MB/sec	3m	HPD 68--- Cen. 50 pin	
SCSI1 (8 bit)	5 MHZ	5 MB/sec	5m	HPD 68--- Cen. 50 pin	

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EI-6600

19" Rack Mount Ultra 2 SCSI to IDE

Disk Array system

User's Guide

Version 6.61A
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Supported RAID Levels

Based on the needs of a Disk Array's capacity, data availability, and overall performance, you can select a proper RAID level for your Disk Array. The supported RAID levels are shown in below :

RAID Level	Function Description	Drives required	
		Min.	Max.
0	"Disk Striping" , block striping is used, which yields higher performance than with the individual disk drives. * There is no redundant function.	2	6
1	"Disk Mirroring" , Disk drives are mirrored , All data is 100% duplicated on each equivalent disk drives. * High Data Reliability	2	6
3	" Parallel Transfer Disks with Parity " , Data is striped across physical drives. Parity protection is used for data redundancy.	3	6
5	" Independent Access Array with Parity " , Data is striped across physical drives. Rotating Parity protection is used for data redundancy.	3	6
0+1	" Disk Striping " + " Disk Mirroring " Function.	4	6

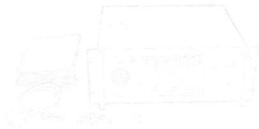
Chapter 2 : " Getting Started "

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.



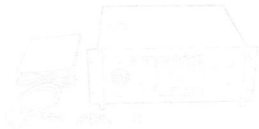
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Unpacking & Checklist

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 (P/S Fan Door's keys & HDD Tray's Keys)
- User Manual

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.

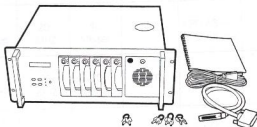


Figure : Checklist