araid® 5000

A Non-Stop RAID 1 controller

Pioneer *Support Enterprise SNMP Agent Management*

- Host Interface: SATA III (6.0Gbps), compatible with SATA II
- Plug and Play, No Driver Needed
- Support Disk Hot-swap and Auto-Rebuild
- 6cm silent and cooling fan
- RAID 1 or RAID 0 mode
- ARAID SMART monitoring system
- Optional Scheduled Backup Function (No RAID 1 functions)

RAID 1 VS RAID 0

RAID 1

Safe Mode   Total Capacity **8 TB**

Capacity:
Master drive 8TB + Secondary drive 8TB = 8TB

Recommendation:
Use as System Drive or Data Drive

RAID 1 combines two hard drives into one hard drive; the secondary drive is used as a mirror drive of the master drive. All the data written onto the master drive will also be copied onto the secondary drive; therefore if the master drive fails, there is a complete backup on the secondary drive which is able to replace and work as the master drive immediately. That's why RAID 1 has the best data safety.

RAID 0

Speed Mode   Total Capacity **16 TB**

Capacity:
8TB + 8TB = 16TB

Recommendation:
Use as Data Drive

RAID 0 combines two hard drives into a hard drive with doubled capacity. When data is written onto it, the data will be scattered onto the two drives; and when data is being read, data will be acquired from the two drives simultaneously. The advantage of RAID 0 is faster data access, but its disadvantage is that it has no safety; once one of the hard drives fails, all data on both hard drives will be completely lost.

YEAR 2019 BEST

A failed hard disk can never let you down again.

Pri HDD : OK	Pri HDD : OK	Pri HDD : OK	Rebuilding...	Rebuilding...	Pri HDD : OK
Sec HDD : OK	Sec HDD : Fail	Sec HDD : OFF	Pri ➡ Sec 02%	Pri ➡ Sec 02%	Sec HDD : OK
Two good drives	One drive failed	Remove failed drive	Insert new drive & start disk rebuild	Rebuilding... Pri ➡ Sec 20% Rebuild in progress (20%)	Rebuild complete

araid® 5000 SATAIII(6.0 Gbps)

ARAID 5000 Specification	
Host Interface	SATA III (6.0Gbps), compatible with SATA I (1.5Gbps) and SATA II (3.0Gbps)
Hard Drive Interface	3.5 inch SATA III (6Gbps) x 2
RAID Level	RAID 1 or RAID 0 (User can set manually)
Front Panel LCD	Displays status of system and hard drive (cooling fan, temperature , HDD rebuilding and HDD fail)
LED Indicator	Shows hard disks READ or WRITE status
Hard Drive Fail Alert	LCD, LED, Buzzer, Email and SNMP Trap Notifications
Single/Dual Switch	Mirror-on-Demand function, rebuild disk manually, which can protect standby hard disk accidental data deletion and anti-virus function
Cooling Fan	6cm silent and cooling fan
No Driver	Yes
HDD Hot-Swap	Yes
OS Support	Windows, Linux, Mac, Solaris, SCO Unix, NetWare, DOS etc.
Dimension	Internal Model : 146 mm(W) x 86 mm(H) x 195 mm(D). Standard 5.25" drive bay x 2 External Model : 183 mm(W) x 156mm(H) x 240mm(D)
Weight (Without HDD)	Internal Model : approx. 0.7kg External Model : approx. 2.68kg
Power Consumption	Internal Model (without HDD) : 2.84W External model (without HDD) : approx. 5.14W ~ 7.32W (depend on models)
Power Supply	Internal Model : Dual Power (Traditional Large 4-pin Power Socket x 1 & SATA Power Socket x 1) External Model : AC 100V ~ 240V
Package Include	ARAID 5000 x1
	HDD Tray x 2
	RS232 to USB Cable x 1
	RS232 Output Cable x 1, RS232 Input Cable x 1
	Accessory bag (Chassis screws x 8, HDD tray screws x 8, Keys x 4)
	CD disk (ARAID Eye, ARAID SNMP, ARAID SMART utilities)
	User manual