



4-bay HDD Array Enclosure
2.5" HDD/SSD Enclosure

User Manual

EC-7254

Product Overview

Dear customers, thank you for purchasing our product. In order for you to further understand the product. Please read this manual carefully before use.

Package Contents

- 2.5" 4-bay HDD Array Enclosure
- Power adapter
- USB 3.0 cable
- User's manual

Product Introduction

- Read and write up to four hard disks simultaneously
- Set RAID mode: RAID 0 , RAID 1 , RAID 3 , RAID 5 , RAID 10
- Hot Swap / Plug and Play
- Tool-less installation
- Transfer speed up to 5Gbps
- Supports 2.5-inch SATA hard disk and SSD
- LED indicator for real-time monitoring of hard disk status

Specification

Product	2.5-inch 4-bay HDD Array Enclosure
Model	EC-7254
Material	ABS/Black
SIZE	105*105*160mm



Product Interfaces



- 1** HDD Slot
- 2** Power switch
- 3** HDD Indicator Light
- 4** Fan Switch
- 5** Built-in Fan
- 6** USB cable interface
- 7** Power connector
- 8** RAID Switch



Procedure for use

1. Plug the power cord and USB 3.0 cable into the hard disk array enclosure;
2. Plug the power cord into a suitable power port;
3. Plug the USB 3.0 cable into a USB port on your computer;
4. Insert 2.5-inch hard disk drives (HDD/SSD) into the drive bays, up to 4 at a time.

①



②



③



④



LED Indicator Description

1. Press the power button, the power indicator light is on, the hard disk enclosure starts to work, press the power button again, the power indicator light is off, the hard disk enclosure stops working.

Please turn off the power switch when the hard disk enclosure is not in use.

2. Press the fan button, the fan indicator light will turn on and the fan will start to rotate, press the fan button again, the fan indicator light will turn off and the fan will stop rotating, users can turn on or off the fan according to the actual use needs.



LED Indicator Description

3. The serial number of the hard disk slot corresponds to the indicator light description:

Slot ① corresponds to the bottom LED, slot ② corresponds to the penultimate LED,

slot ③ corresponds to the penultimate LED, and slot ④ corresponds to the top LED.

Slot ④ corresponds to the top LED. When no hard disk is inserted, the indicator light is red, and when the hard disk is inserted, the corresponding LED light is blue.

4. When data is transferred to the corresponding hard disk slot, the corresponding LED blinks.



RAID Mode Setting



- Power must be turned off when setting up a new RAID
- When setting up a RAID, all DATA/FILES on the hard disk drives will be deleted

ON/L	1/H	2/H	3/H	4/H	HDD	Disk reading	Functional Description
RAID0	H	H	H	L	≥ 2	Read N times the capacity of the smallest HDD	In this mode the hard disk performance is higher and faster. In RAID0 mode, the stored data is split into two parts and stored on two hard disks which are shown as one hard disk. When one of the hard disk fails, all data will not be recovered
RAID1	L	H	H	L	2~3	Read the smallest HDD	High security, average read/write speed, small available capacity. In this mode, the two hard disks are mirror images of each other and can back up data with good security and appear as one hard disk. When one hard disk is damaged, replace it with a brand new hard disk (greater than or equal to the capacity of the original hard disk) to automatically recover data and continue to use.
RAID3	L	L	H	L	≥ 3	Reads 3x the capacity of the smallest HDD	Fast reading and writing, security and capacity at the same time. One of the hard disk serves as the checksum disk and the rest are data disks. When one of the hard disks fails, data can be recovered using the rest of the data and checksum information. When two of the hard disks fail, all data will not be recovered.
RAID5	L	H	L	L	≥ 3	Reads 3x the capacity of the smallest HDD	Fast read/write, with both security and capacity. Data and parity information are stored in separate strips on each hard disk, and the data and its corresponding parity information are on different hard disks. When one of the hard disks fails, data can be recovered using the rest of the data and parity information. When two of the hard disks fail, all data will not be recovered.
RAID10	L	H	H	L	4	Reads 2x the capacity of the smallest HDD	RAID 0 read/write speed and RAID 1 security combined RAID mode. Applicable to large amounts of data, security requirements of high occasions to use RAID10 is the RAID1 mirroring and RADO block storage for the combination of the first RAID1 mirroring and then do RAID0 security and high-speed. Two hard disk failure at the same time, but not in a RAID 1, the data can still be read.
RAID CLONE	H	H	L	L	≥ 2	Read the smallest HDD	Highest security, average read/write speed, small usable capacity. Suitable for backing up data on more than 2 hard disks at the same time Clone Mode, completely copies all data from one disk to one or more disks. When one of the hard disks fails, all data will not be affected.
Cancel RAID Group /Reset	L	L	L	L	≥ 1	Eliminate RAID groups and read them individually	The hard disk is recognized, read and write separately, and the hard disks do not affect each other. The ability to cancel RAID groups and reset the product matrix. When one of the hard disk fails, the rest of the hard disk will not be affected.

ON/L	1/H	2/H	3/H	4/H	HDD	Disk reading	Functional Description
PM reads separately	H	L	L	L	≥ 1	Read each disk separately	The hard disks are recognized, read and written to individually, and the hard disks do not affect each other. When one hard disk fails, the other hard disks will not be affected.
LARGE/JBOD	H	L	H	L	≥ 2	Read the total capacity of all hard disks	Maximum available capacity, average read and write speeds, low security. Consolidated storage mode. When one of the hard disks fails, all data will not be recovered

Example: A disk labeled as 1000GB or 1TB may have an actual capacity of only 930 electronics
 Note: Capacity refers to the actual amount of space that can be used, not the space labeled on the hard drive. The actual capacity of a hard disk drive is usually different from the capacity on its label.

Clear RAID mode

1. Turn off the power and turn the RAID switch to (LLLL) to cancel all RAID functions.
2. Press the RAID (RESET) switch, turn on the power, and press and hold the RAID (SET) switch for 3-5 seconds.

Warm Tip: Before clearing the PAID mode, please backup the hard disk data.

Setting the RAID Mode

1. Clear the RAID mode after safely backing up all data on the hard disk first (when resetting the RAID mode, you must clear it first)
2. Set the array switch to the desired RAID mode;
3. Press the RAID (SET) switch, turn on the power, and press and hold the RAID (SET) switch for 3-5 seconds;
4. Connect the product to the computer USB port;
5. At this time, the hard disk working indicator lights up when reading disk, and the corresponding hard disk indicator flashes when working.

The corresponding LED blinks to indicate read/write: If one or more hard disks fail in a RAID setup or if no hard disk is inserted in the corresponding bay, the red LED will light up. Unplug the failed hard disk and replace it with a spare disk, the red LED will blink and then stop.

Fault resolution

My computer doesn't recognize

- Ensure that the power supply is properly connected (and the power switch is turned on)
- Ensure that the USB cable is securely connected between the hard disk enclosure and the computer.
- Try to access the rest of the USB ports on your computer or laptop
- If your computer still does not recognize it, please contact ACASIS after-sales technical support.

Slow connection speed

Ensure that the hard disk array enclosure is connected to a USB 3.0 and higher port on your computer. Because the hard disk array cartridge is backward compatible, the cartridge operates slower when the connected port is USB 2.0/1.1.

Power problems

Try using a power adapter from another electrical outlet to ensure that the power adapter is securely connected to the hard disk array cartridge.

Support

If you have any questions, please contact our customer support: support@acasis.com.

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