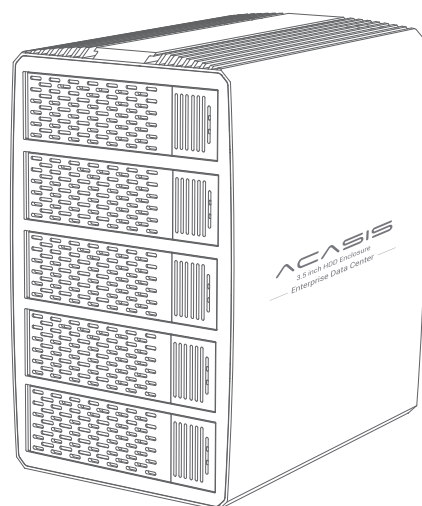# ACASIS

Multi-disk (five-disk) disk array box

User Manual

EC-7355

Porduct 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

- Multi-disk (five-disk) disk array box
- USB Cable
- User Manual
- 12V/8A Power Adapter
- RAID mode rotation card
- Screw * 24
- Screwdriver * 1

Features

EC-7355 disk array box is an enterprise data center, universal 5 disk slots, fully compatible with 2.5/3.5-inch hard drives, SATA port solid state/mechanical hard drives, internal SATA 3.0 interface and external Type-C 3.0 interface, 5Gbps transmission broadband, high-speed and stable transmission. Eight RAID modes, RAID0/RAID1/JBOD /RAID3/LARGE mode /RAID5/Clone mode /RAID10, according to actual use needs, free combination, intelligent hibernation when no operation, reduce hard disk loss and power consumption, extend hard disk service life, can wake up the hard disk when reading and writing data. Hard drives are more durable, With LED work display light, the blue light flashes when reading and writing data, the working status is clear at a glance. Thickened aluminum alloy shell, built-in super cooling fan, enhance air circulation and heat discharge, multiple heat dissipation is not afraid of high temperature.
EC-7355 five-disk disk array box port: Type-C+SATA 3.0 x 5+DC
Usb-c 3.0 port: supports USB 3.0 and is backward compatible with USB 2.0
DC: Supports 12V/8A power supply
Compatible with Mac OS, Windows, and Linux

Specification

Product	5-disk disk array box	Support expansion	100TB
Model	EC-7355	RAID mode	8 RAID modes
Material	Aluminum	Support hard disk	2.5/3.5-inch HDD/SSD
Size	203*133*220MM	Weight	2430g
Uplink port	USB-C 3.0(5Gbps) 1*DC 12V/8A ON/OFF Knob dip (1-8)/Reset (Reset) The disk array mode can be adjusted only when used together		
System	Windows 7/10/11Mac OS10.2 above, Linux		

Interface Introduction

- Five-disk disk array box, built-in SATA 3.0+5 interface (backward compatibility), can be installed at the same time 5 SATA interface/mechanical hard disk (2.5-inch hard disk), enterprise data storage manager;
- External USB-C 3.0 interface, up to 5Gbps transmission broadband, downward compatible with USB 2.0;
- Support hot swap, plug and play;
- Dial RAID mode DIP switch (with the reset key), to help users quickly and easily set arrays, users can select eight combination modes based on actual requirements. Before switching between different modes, please read the manual carefully and back up the required data in advance, The original data will be formatted.
- Tool-free & self-ejecting tray switch for quick installation of hard disk,
- LED light design, real-time monitoring of each hard disk working status;
- Supports Mac OS, Windows, and Linux.
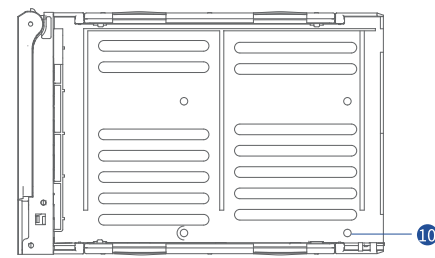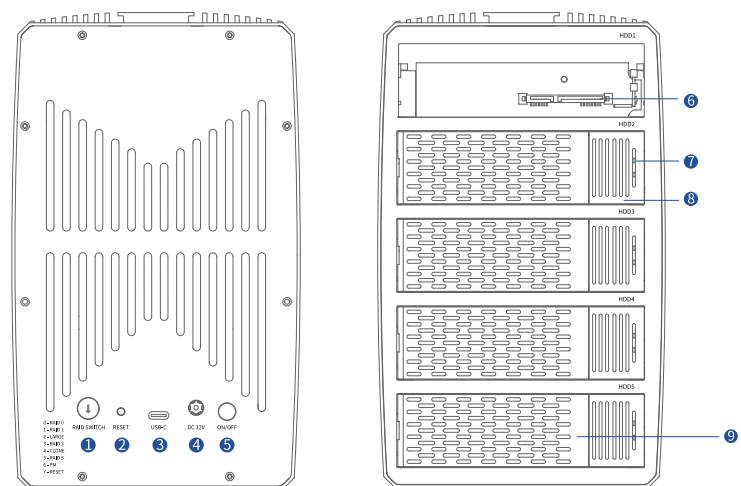
| ❶	RAID mode Twist	Eight RAID modes are supported. For details about the DIP mode, see "RAID Description and DIP"
❷	RESET key	To change the RAID mode, you must press this key to create a new RAID mode
❸	Type-C (5Gbps)	Data transfer interface, connecting to the server
❹	Power supply 12V	Power interface to supply power to the product
❺	Power switch	Press to turn the product on and off
❻	3.5/2.5-inch hard disk port	2.5/3.5-inch HDD or SSD port
❼	Hard disk indicator	Displays the working status of each hard disk
❽	Hard disk tray switch	Press the control hard drive tray handle to eject
❾	Hard drive tray handle	Pull out the internal hard drive tray
❿	Screw holes for securing 2.5-inch hard disks	Secure the 2.5-inch hard disk

Indicator description

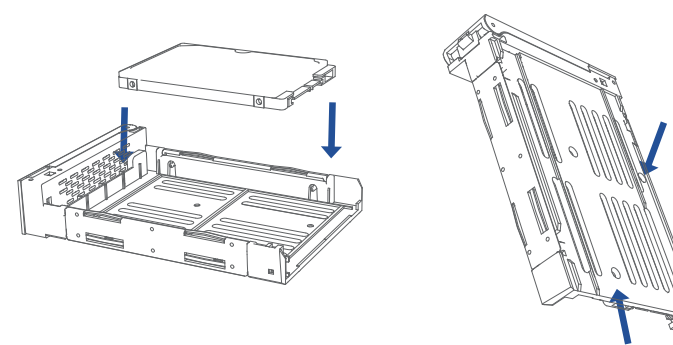| Blue light on	Connect the power supply, hard disk access/Data backup and restoration (backup) is complete
Blue light flashing	Hard disk reading
The red light is steady on	Insert hard drive corruption (only bad hard drive where the disk is working but cannot be read)
Red and blue lights flashing	Raid 1/3/5/10 Transfer of hard disk backup data

Installation Operation Guide

Hard disk installation and use

1. Press the hard disk tray opening key and pull out the hard disk tray handle.
2. Rotate to open the tray side fixing bar.
3. Insert the 3.5-inch hard disk, align it with the securing columns on both sides, and lock the hard disk.
4. Place the hard disk in the box with the tray.
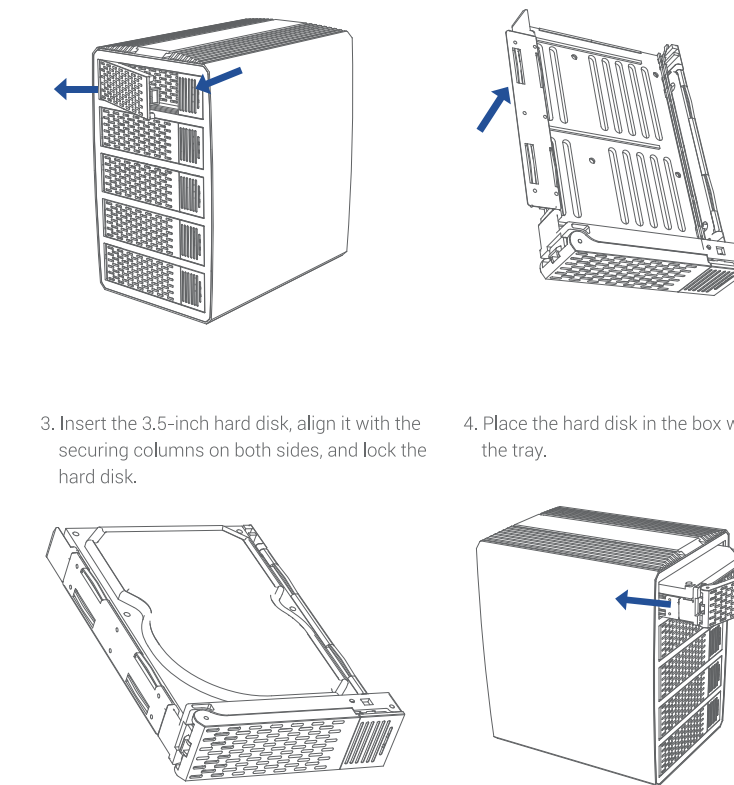
Install a 2.5-inch hard disk

2. Place 2.5-inch hard disks.
3. Turn the tray downward, align the four holes on the hard disk with those on the tray, and tighten the mounting screws to secure the tray.

Product operation

1. Add a 2.5/3.5-inch hard disk;
2. Connect the product to the computer USB with the data cable, and then connect the power adapter for power supply;
3. Click the power switch.

RAID mode description and DIP switch

RAID mode	Set dip	Dial dial	Number of hard disks	Hard disk Identification (N: Number of hard disks)	Function description
RAID0	0		≥2	The identification capacity is N times the capacity of small and medium-sized hard disks	In this mode, the disk has high performance and high speed. In RAID0 mode, the stored data is split into two parts, which are stored on two hard drives and displayed as one hard drive, When one of the hard disks fails, all data is not recovered
RAID1	1		2~3	Minimum capacity hard disks (Only two to three hard disks can be inserted. More than three hard disks enter RAID 10 mode.)	High security, low read/write speed, and small available capacity. In this mode, the two hard disks mirror each other to back up data and are displayed as one hard disk, When a hard disk is damaged, a new hard disk (greater than or equal to the capacity of the original hard disk) can automatically recover data and continue to use the original hard disk
RAID3	3		≥3	Small hard disk capacity (N-1) times	Fast read and write, both security and capacity. One disk serves as the parity disk, and the other disks serve as data disks. When one disk fails, the other data and verification information can be used for data recovery, When two disks fail, all data is not recovered
RAID5	5		≥3	Small hard disk capacity (N-1) times	Fast read and write, both security and capacity. Data and verification information are stored on different disks in stripes. Data and verification information are stored on different disks. When one disk fails, the other data and verification information can be used for data recovery. When two disks fail, all data is not recovered
RAID10	1		≥4	Hard disk Twice the size of small and medium hard disks	RAID 0 RAID mode that combines read/write speed with RAID 1 security. Applicable to scenarios with large data volume and high security requirements RAID10 combines the mirroring of RAID1 and the block storage of RAID0, RAID1 mirroring is performed first and then RAID0 is performed in a secure and high-speed manner, If two hard disks fail at the same time but are not in the same RAID 1 group, data can still be read
CLONE	4		≥2	Minimum capacity hard disk	It has the highest security, average read/write speed, and small available capacity. Applicable to the scenario where data on more than two hard disks is backed up at the same time, Clone mode. All data on a hard disk is copied to one or more hard disks. If one of the hard disks fails, all data is not affected
PM: Independent operation	6		≥1	Hard disks can be identified and read and written independently	In factory mode setting, hard disks can be identified, read and written independently, and each hard disk does not affect the other. If one disk fails, the other disks are not affected
PM Cancel RAID group /Reset	7		≥1	Hard disks can be identified, read and written independently	Hard disks can be independently identified, read and written, and hard disks do not affect each other. RAID groups can be canceled and product matrices can be reset. If one disk fails, the other disks are not affected
LARGE	2		≥2	Total capacity of all hard disks	Maximum available capacity, low read/write speed, and low security. Merge storage mode. When one of the hard disks fails, all data is not recovered

⚠ A reminder to replace a bad disk

RAID 1/3/5/10 Replacing a hard disk Prompt:
1. Power off
2. Remove the damaged hard disk and replace it with a new one
3. Power on
4. If the indicator is blinking red and blue, the hard disk is being copied

Tip: The actual capacity of the new hard disk is greater than or equal to the actual capacity of the damaged hard disk

⚠ This section describes how to use RAID groups

1. Power off
2. Turn the digital knob switch to the specified mode
3. Hold down the reset button
4. Turn on the power switch and the disk indicator turns blue
5. Release the reset button after 3-5 seconds

⚠ Tip

1. Enable disk management to view RAID modes;
2. Every shift needs to return to 7 gear to restore the initial mode. If you do not return to 7 gear to restore the initial mode before the shift, the mode of the previous gear will be displayed The format fails;
3. In the same mode to add/subtract the number of hard disks, or need to return to 7 reset, re-group, otherwise add or subtract hard disks invalid;
4. If the reset in 7th gear is not successful, you need to restart the power supply;
5. After the RAID mode is configured, initialize the disks before they can be used normally.

Trouble Shooting

1. Why can't the hard disk appear on the computer?

① Check whether the hard disk is a 2.5/3.5-inch HDD or SSD and is correctly inserted into the slot.
② Please check whether your hard disk is displayed in Disk Management/Disk Utility,
   Windows: Right-click This Computer and choose Manage from the shortcut menu to enter Disk Management.
   Mac operating system: Type "Disk Utility" in the desktop search bar, then press enter.
If the hard disk is brand new, it needs to be formatted and initialized.
   For the Windows operating system, perform the following steps:
1) Right-click on the computer and go to Manage -> Disk Management -> Initialize Disk.
2) Right-click the unallocated space and click New Simple Volume. Select Next several times as prompted, and then click Finish.
   For Mac operating systems, take the following steps:
1) A prompt will appear after connecting it to the cabinet. Right-click Initialize to start.
2) Right-click "Erase" and a pop-up window will appear.
3) Right-click Erase in the pop-up window to complete SSD initialization.
④ Please replace the hard disk (preferably a known good hard disk), make sure that the hard disk is not faulty.

Fitting requirement

- Use of unauthorized or incompatible power supplies, accessories that may cause fire, explosion or other hazards;
- Only accessories approved by the equipment manufacturer and compatible with this model can be used. If you need approved accessories, please contact customer service.

Environmental protection

- Do not dispose of the equipment and its accessories as ordinary household garbage;
- Please comply with local laws governing the disposal of this device and its accessories and support recycling.

Support

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

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