MAIWO K35262U3S

MAIWO Dual Bay RAID Enclosure User Manual

Model: K35262U3S

1. Introduction

Thank you for choosing the MAIWO Dual Bay RAID Enclosure. This device is designed to provide flexible and expandable storage solutions for your 3.5-inch SATA hard drives, supporting up to 44TB total capacity. It features USB 3.0 connectivity for high-speed data transfer and multiple RAID modes to suit various data management needs, all while maintaining optimal operating temperatures with its built-in cooling fan.

Image: Front and side view of the MAIWO Dual Bay RAID Enclosure, showcasing its compact design and ventilation.

2. Package Contents

Please check the package carefully to ensure all items are present:

- MAIWO Dual Bay RAID Enclosure (K35262U3S)
- USB 3.0 Data Cable
- Power Supply (48W)
- Screws for HDD installation
- Screwdriver
- User Manual (this document)

3. Product Features

- **Compatibility:** Supports two 3.5-inch SATA HDDs, with a maximum single disk capacity of 22TB, totaling up to 44TB storage expansion.
- **Multiple RAID Modes:** Offers RAID 0, RAID 1, JBOD (Large), and Normal modes for flexible data management and protection.
- **High-Speed Transfer:** USB 3.0 interface provides data transfer rates up to 5Gbps.
- **Efficient Cooling:** Constructed from aluminum alloy and equipped with a built-in cooling fan to prevent overheating.
- **Stable Power Supply:** Includes a 48W power adapter for reliable and stable operation.

4. Setup Guide

4.1 Hard Drive Installation

1. Ensure the enclosure is powered off and disconnected from your computer.
2. Gently slide open the drive bay cover.
3. Insert your 3.5-inch SATA hard drives into the designated slots (HDD1 and HDD2). Ensure they are firmly seated. For 2.5-inch SATA drives, an additional 2.5 to 3.5 mounting bracket is required (not included).
4. Secure the hard drives with the provided screws and screwdriver if necessary.
5. Close the drive bay cover.

Image: Illustration of two 3.5-inch SATA hard drives being inserted into the MAIWO Dual Bay RAID Enclosure.

4.2 Connecting to Computer

1. Connect one end of the USB 3.0 data cable to the USB 3.0 port on the back of the enclosure.
2. Connect the other end of the USB 3.0 data cable to an available USB 3.0 port on your computer.

Image: The MAIWO enclosure connected to a laptop, demonstrating the USB 3.0 connection.

4.3 Power Connection

1. Connect the provided 48W power adapter to the DC 12V port on the back of the enclosure.
2. Plug the power adapter into a wall outlet.
3. Flip the ON/OFF switch on the back of the enclosure to the "ON" position. The power indicator light should illuminate.

Image: The MAIWO enclosure connected to its power adapter, ensuring stable data transmission.

5. Operating Instructions

5.1 RAID Mode Configuration

The enclosure supports four RAID modes: RAID 0, RAID 1, JBOD (Large), and Normal.**Important: Always back up your data before changing RAID modes, as data loss may occur.**
To configure the RAID mode:

1. Ensure the enclosure is powered off.
2. Locate the RAID mode switches (Switch 1 and Switch 2) on the back of the enclosure.
3. Set the switches according to the desired RAID mode as shown in the table below.
4. Press and hold the "RESET" button while powering on the enclosure. Continue holding the "RESET" button for approximately 5-10 seconds until the indicator lights confirm the new RAID mode.
5. Release the "RESET" button. The new RAID configuration is now active.

6. Initialize and format the drives through your operating system's disk management utility if they are new or if you have changed the RAID mode.

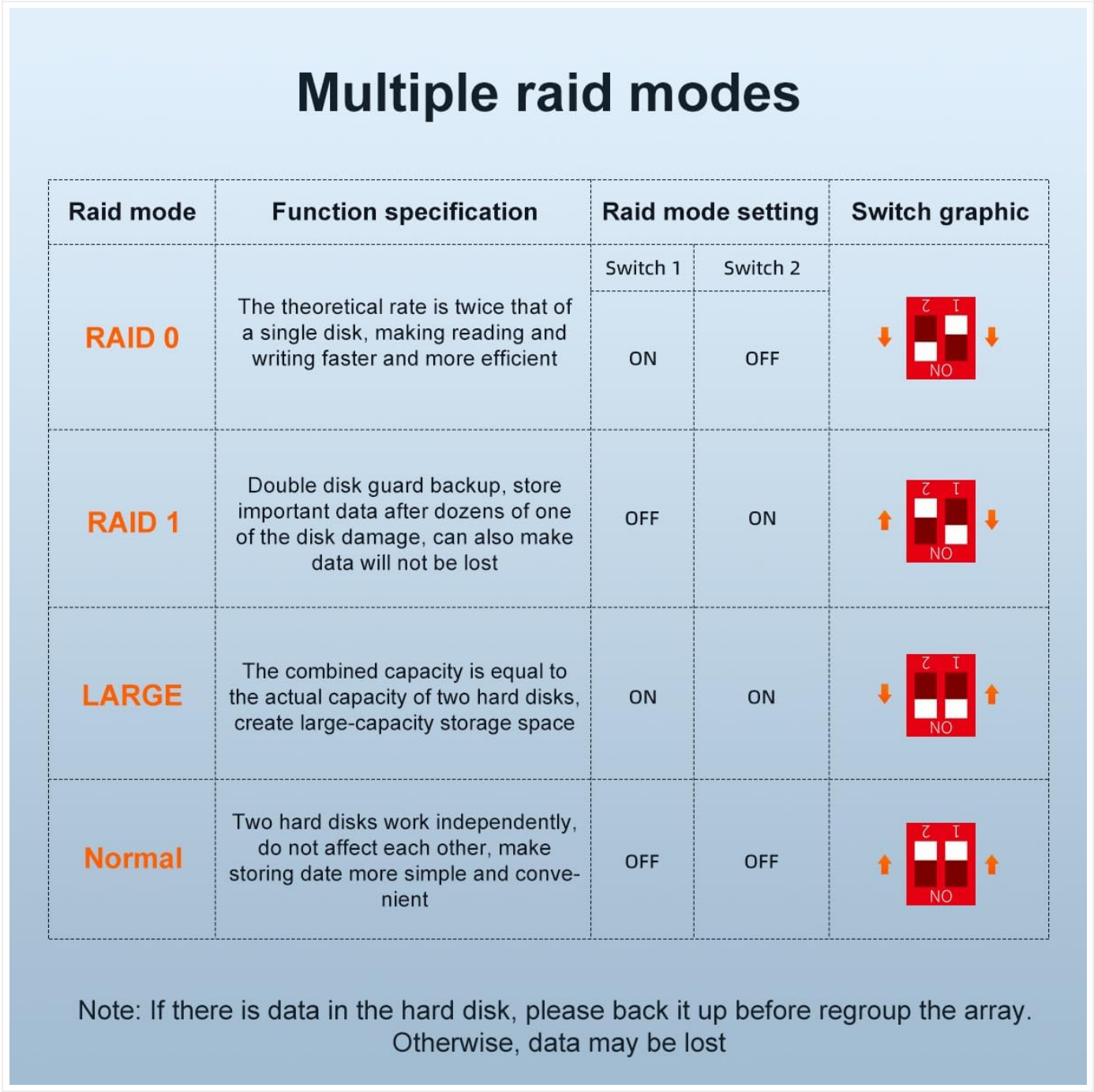

Image: A table illustrating the different RAID modes (RAID 0, RAID 1, LARGE, Normal), their functions, and the corresponding switch settings on the enclosure.

RAID Mode Functionality

RAID Mode	Function Specification	Switch 1	Switch 2
RAID 0	Combines drives for increased speed and capacity. Data is striped across both drives. No redundancy.	ON	OFF
RAID 1	Mirrors data across both drives for redundancy. Provides data backup; capacity is limited to the smallest drive.	OFF	ON

RAID Mode	Function Specification	Switch 1	Switch 2
JBOD (Large)	Concatenates drives to create one large volume. No redundancy or performance benefits.	ON	ON
Normal	Each hard drive operates independently as a separate volume.	OFF	OFF

Warning: If there is data on the hard disk, please back it up before regrouping the array. Otherwise, data may be lost.

5.2 Data Transfer

Once the enclosure is connected and the drives are recognized by your operating system, you can transfer data at speeds up to 5Gbps via the USB 3.0 interface. Actual transfer speeds may vary depending on the hard drive's performance and system configuration.

Image: A visual representation of the 5Gbps data transfer speed, with the enclosure connected to a laptop during a file transfer operation.

6. Maintenance

6.1 Cooling Fan Operation

The enclosure features a built-in cooling fan to dissipate heat from the hard drives. The fan speed can be adjusted using the fan control switch on the back panel.

- **Low Speed:** Recommended for ambient temperatures around 25°C or lower to maintain optimal drive temperature.
- **High Speed:** Recommended for ambient temperatures above 25°C or during intensive data operations to effectively reduce hard drive heat.

Image: Close-up of the rear panel of the enclosure, highlighting the cooling fan and the fan speed adjustment switch.

6.2 General Care

- Keep the enclosure in a well-ventilated area to ensure proper airflow.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.

- Clean the exterior with a soft, dry cloth. Do not use liquid cleaners.
- Ensure the power supply is stable to prevent data corruption.

7. Troubleshooting

Common Issues and Solutions

Problem	Possible Cause	Solution
Enclosure not recognized by computer.	◦ Loose USB cable connection. ◦ Insufficient power. ◦ Driver issues. ◦ Hard drives not properly installed.	◦ Ensure USB cable is securely connected to both the enclosure and the computer. ◦ Verify the power adapter is connected and the enclosure is powered on. ◦ Try a different USB port or cable. ◦ Check Device Manager (Windows) or System Information (macOS) for device recognition. ◦ Re-seat the hard drives inside the enclosure.

Problem	Possible Cause	Solution
Hard drives not appearing in "My Computer" or "Finder".	◦ Drives are uninitialized or unformatted. ◦ Incorrect RAID mode setting.	◦ Go to Disk Management (Windows) or Disk Utility (macOS) to initialize and format the drives. ◦ Verify the RAID mode switches are set correctly and the "RESET" procedure was followed after changing modes.
Slow data transfer speeds.	◦ Connected to a USB 2.0 port. ◦ Hard drive performance limitations. ◦ System resource contention.	◦ Ensure the enclosure is connected to a USB 3.0 port on your computer. ◦ Mechanical hard drives have inherent speed limits; 5Gbps is the theoretical maximum for the interface. ◦ Close unnecessary applications during large transfers.

Problem	Possible Cause	Solution
Enclosure or drives overheating.	◦ Insufficient ventilation. ◦ Fan set to low speed in high ambient temperatures.	◦ Ensure the enclosure is placed in an open area with good airflow. ◦ Adjust the cooling fan to a higher speed, especially during prolonged use or in warmer environments.
Data loss or corruption.	◦ Improper RAID mode change. ◦ Sudden power loss. ◦ Drive failure. ◦ Unsafe ejection.	◦ **Always back up data before changing RAID modes.** ◦ Ensure stable power supply. Use a UPS if power fluctuations are common. ◦ Always safely eject the device from your operating system before disconnecting power or USB. ◦ If a drive fails in RAID 1, replace the faulty drive and allow the array to rebuild.

8. Specifications

Feature	Detail

Feature	Detail
Model Number	K35262U3S
Brand	MAIWO
Supported Drives	2 x 3.5-inch SATA HDDs (SATA III and below)
Max Single Disk Capacity	22TB
Max Total Capacity	44TB
RAID Modes	RAID 0, RAID 1, JBOD (Large), Normal
Interface	USB 3.0 (5Gbps)
Power Supply	DC 12V, 48W Adapter
Cooling System	Built-in Cooling Fan with adjustable speeds
Material	Metal (Aluminum Alloy)
Compatible OS	Windows (Win7 and above), Mac OS (Mac10 and above), Linux
Product Dimensions	18.39 x 6.6 x 14.3 cm
Item Weight	580.6 g

9. Warranty and Support

MAIWO products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official MAIWO website. If you encounter any issues or require technical assistance, please contact MAIWO customer support through their official channels.
For the latest support information and contact details, please visit:MAIWO Official Website