

MAIWO K35284D

MAIWO 4 Bay HDD RAID Enclosure K35284D Instruction Manual

Model: K35284D | Brand: MAIWO

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MAIWO 4 Bay HDD RAID Enclosure. This device is designed to house up to four 3.5-inch SATA hard disk drives, offering various RAID configurations for data storage, backup, and management. Please read this manual thoroughly before using the product to ensure proper functionality and safety.

2. SAFETY INFORMATION

- Ensure the enclosure is placed on a stable, flat surface to prevent accidental falls.
- Do not expose the device to water, moisture, or extreme temperatures.
- Use only the provided power adapter. Using an incorrect adapter may damage the device and void the warranty.
- Avoid opening the enclosure or attempting repairs yourself. Refer to qualified service personnel for assistance.
- Disconnect the power supply before installing or removing hard drives.
- Handle hard drives with care to prevent damage from static electricity or physical impact.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x MAIWO 4 Bay RAID Enclosure
- 1x Power Supply (12V/7A power adapter)
- 1x Screwdriver
- Screws for HDD installation
- 1x USB-A to USB-C Cable
- 1x USB-C to USB-C Cable
- 1x User Manual (this document)

8 RAID modes can be set				
RAID Level	Minimum Drives	Role & Purpose	How It Works	How to set up
RAID 0	2	Pure Performance & Maximum Capacity	Striping: Data is split evenly across two or more drives	
RAID 1	2	Pure Redundancy	Mirroring: Data is written identically to two (or more) drives	
RAID 3	3	To provide high-speed sequential data transfer and redundancy for specialized applications	Byte-level striping across all data drives with a dedicated parity drive.	
RAID 5	3	Balance of Redundancy, Performance, & Capacity	Striping with Distributed Parity. Data and parity blocks are striped across at least 3 drives	
Normal(PM)	1	To Provide Continuous System Availability (Uptime)	Normal Operation, Failure & Degradation, and Recovery.	
Large(JBOD)	2	To combine multiple physical disks into a single, large logical volume without using RAID's data stripping, mirroring, or parity techniques	spanning or concatenation	
Clone	2	Static Replication for migration, backup, or deployment	A Step-by-Step Process	
RAID 10	4	High Performance & High Redundancy	A combination of RAID 1 and RAID 0: Mirrored pairs(RAID 1) are then striped together(RAID 0)	

Figure 3.1: Package Contents

4. PRODUCT OVERVIEW

The MAIWO 4 Bay HDD RAID Enclosure features a robust aluminum alloy and ABS construction, designed for efficient heat dissipation and durability. It supports up to four 3.5-inch SATA HDDs, offering a maximum capacity of 96TB (with four 24TB drives).

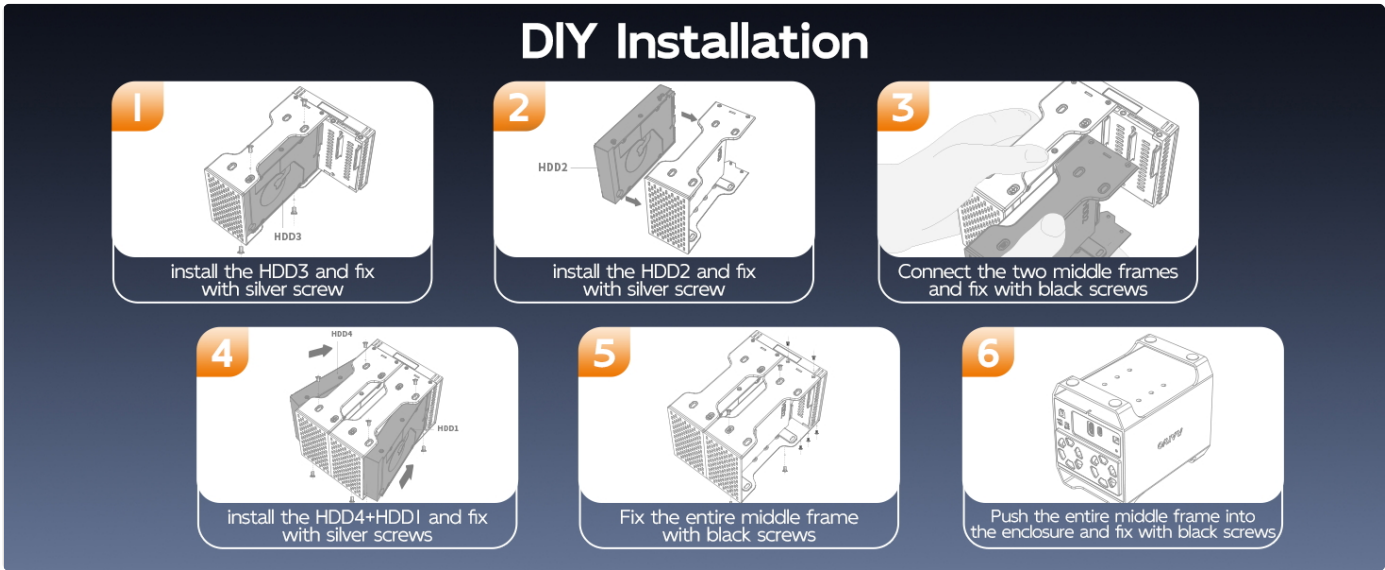


Figure 4.1: Enclosure Dimensions and Rear Panel Features

Front Panel Indicators:

- **HDD1-HDD4 Indicators:** Blue LEDs that illuminate to indicate drive activity and status.

Rear Panel Ports and Controls:

- **RAID Reset Button:** Used to reset RAID configurations.
- **RAID Setting Dip Switches (1-4):** Used to select the desired RAID mode.
- **Fan Switch:** Controls the cooling fan operation (On/Off).
- **Power Port (DC 12V):** Connects to the external power adapter.
- **Type-C Port (USB 3.0):** Connects to your computer for data transfer.
- **HD TV Port:** For display screen demonstration and sharing.

5. SETUP

5.1 Hard Drive Installation

The enclosure supports 3.5-inch SATA I/II/III hard drives. Follow these steps to install your drives:

1. Ensure the enclosure is powered off and disconnected from any computer.
2. Gently slide out the internal drive trays from the enclosure.
3. Place a 3.5-inch SATA HDD into each tray, aligning the screw holes.
4. Secure each HDD to its tray using the provided screws and screwdriver.
5. Carefully slide the loaded trays back into the enclosure until they are firmly seated. Ensure the SATA connectors align properly.



Figure 5.1: Hard Drive Installation Steps

Suitable for 3.5" SATA HDD



Figure 5.2: Inserting a 3.5-inch SATA HDD

5.2 Connecting to a Computer

1. Connect the provided power adapter to the DC 12V power port on the rear of the enclosure and then plug it into a power outlet.
2. Use either the USB-A to USB-C cable or the USB-C to USB-C cable to connect the enclosure's Type-C port to your computer's USB port.
3. Turn on the power switch on the rear of the enclosure. The HDD indicator LEDs will light up.

Independent Uninterruptible Power Supply

A safeguard against data corruption, hardware damage, and system downtime caused by power anomalies.



Figure 5.3: Power and Data Connections

5.3 RAID Configuration

The MAIWO 4 Bay HDD RAID Enclosure supports multiple RAID modes. **Before configuring RAID, ensure all drives are unformatted and contain no important data, as RAID setup will erase all data on the drives.**

1. With the enclosure powered off, use a small tool (like the provided screwdriver) to adjust the RAID Setting Dip Switches on the rear panel to your desired RAID mode. Refer to the RAID Mode Table below.
2. Press and hold the RAID Reset button for 5 seconds.
3. Power on the enclosure. The new RAID configuration will be applied.
4. Connect the enclosure to your computer. You may need to initialize and format the new volume in your operating system's Disk Management utility.



Figure 5.4: RAID Mode Configuration Table

Important: Changing RAID modes will erase all data on the drives. Back up any critical data before making changes.

6. OPERATING

6.1 Basic Operation

Once connected and configured, the enclosure will appear as an external drive or drives on your computer. You can then use it like any other storage device for saving, accessing, and managing files.

6.2 Data Transfer

The enclosure utilizes a USB 3.0 Type-C interface, supporting data transfer speeds up to 5Gbps. This allows for rapid transfer of large files, such as 1GB in approximately 2 seconds under optimal conditions.

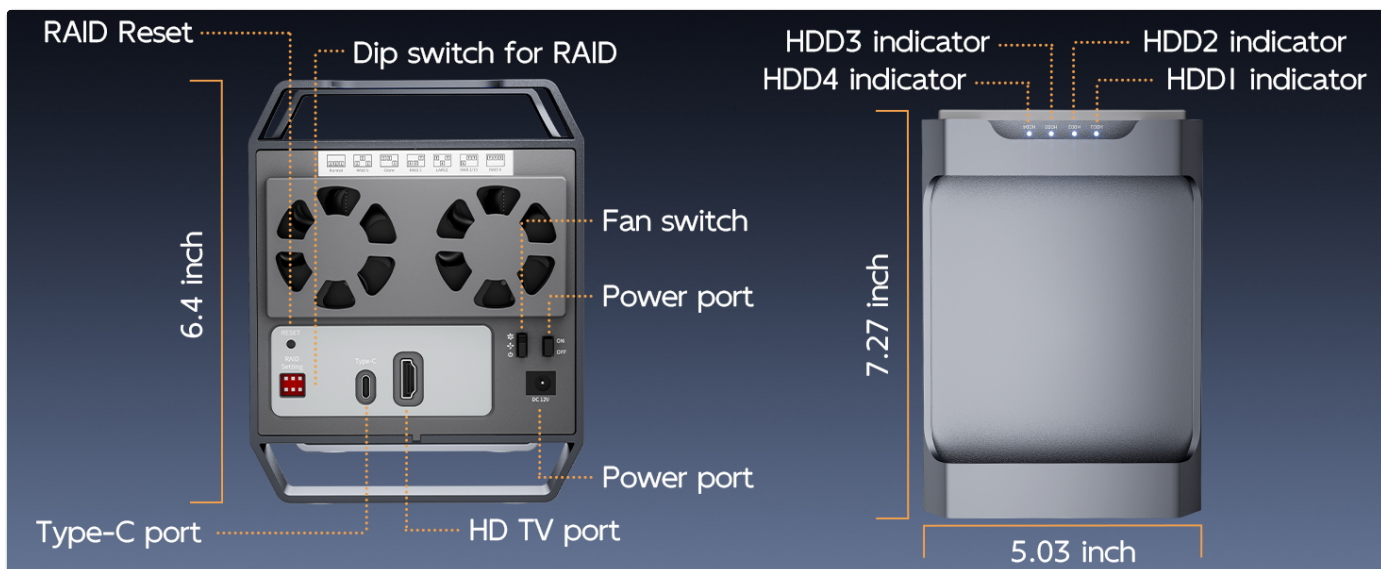


Figure 6.1: High-Speed Data Transfer

6.3 Fan Control

The enclosure includes two built-in cooling fans to maintain optimal operating temperatures for your hard drives. The fan operation can be controlled via the fan switch on the rear panel (On/Off).



Figure 6.2: Cooling System Components

7. MAINTENANCE

7.1 Cleaning

To ensure optimal performance and longevity, regularly clean the exterior of the enclosure with a soft, dry cloth. Avoid using liquid cleaners or solvents. Ensure the ventilation holes are free from dust and obstructions.

7.2 Fan Maintenance

Periodically check the cooling fans for dust accumulation. If necessary, use compressed air to gently clear dust from the fan blades and vents. Do not attempt to disassemble the fans.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Enclosure not recognized by computer	Loose USB cable connection; Power not on; Driver issue; Uninitialized/unformatted drives.	Check USB cable connection; Ensure power switch is ON; Try a different USB port/cable; Check Disk Management for uninitialized drives.
Drives not appearing after RAID setup	RAID not properly initialized; Drives not formatted.	Ensure RAID reset procedure was followed correctly; Initialize and format the volume in Disk Management.
Beeping sound from enclosure	Indication of a drive error or RAID degradation.	Check individual drive status indicators; Consult the RAID mode table for specific error patterns; Consider replacing a failing drive if applicable for your RAID level.
Slow data transfer speeds	Using a USB 2.0 port; Cable issue; Drive performance limitations.	Ensure connection to a USB 3.0 (or higher) port; Try a different USB 3.0 cable; Check drive health and performance.
Enclosure gets warm	Normal operation; Fans off or obstructed.	Ensure cooling fans are switched ON; Clear any obstructions from vents; Ensure adequate airflow around the enclosure.

9. SPECIFICATIONS

Feature	Specification
Brand	MAIWO
Model Number	K35284D
Compatible Drives	3.5" SATA I/II/III HDDs
Number of Bays	4 Bays
Max Capacity	Up to 96TB (4 x 24TB drives)
RAID Modes	Normal, 0, 3, 5, 1/10, Clone, Large (JBOD)
Interface	USB 3.0 Type-C (up to 5Gbps)
Cooling System	2x 50mm Cooling Fans (switchable On/Off)
Material	Acrylonitrile Butadiene Styrene (ABS), Aluminum
Dimensions	184 x 127 x 115mm (approx. 7.24 x 5 x 4.53 inches)
Weight	2.65 Pounds (approx. 1.2 kg)
Power Supply	External 12V/7A Adapter
Compatible Devices	PC, Phone (with OTG), TV

10. WARRANTY AND SUPPORT

MAIWO provides a warranty for this product. Please review the following terms:

- Shipment received with visible damages must be reported within three (3) calendar days of the delivery date.
- All returns with missing parts (including accessories, manuals, warranty registration cards, original manufacturer packing materials, and retail packaging) will not be processed until the missing part is received.
- The customer is responsible for return shipping expenses and restocking fees unless explicitly stated otherwise. Replacements will be shipped at MAIWO's expense.
- Customers must ship return products with sufficient packaging to prevent physical damage during transit. Any loss or damage due to insufficient packaging may result in the return being rejected or charges applied to the refund.
- Upon acceptance of merchandise in like-new condition, the purchase price will be credited to the original payment method.
- Refunds will be issued after the warehouse receives, inspects, and processes your return.

For further support or inquiries, please visit the official MAIWO website or contact your retailer.

11. PRODUCT VIDEO OVERVIEW

Your browser does not support the video tag.

Video 11.1: Overview of the MAIWO 4 Bay RAID Enclosure, demonstrating HDD installation, connectivity, and fan operation. This video provides a visual guide to the product's features and basic setup.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question