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> MAIWO Hard Drive RAID Enclosure Dual Bay for 2.5 Inch SATA SSD HDD, USB 3.1 GEN 2 10Gbps with UASP, RAID 0/1/JBOD/PM, 16TB Capacity, External Hard Drive Reader Case Aluminum K25272C User Manual

MAIWO K25272C

MAIWO K25272C Dual Bay Hard Drive RAID Enclosure User Manual

Model: K25272C | Brand: MAIWO

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your MAIWO K25272C Dual Bay Hard Drive RAID Enclosure. This device is designed to house two 2.5-inch SATA SSDs or HDDs, offering high-speed data transfer and flexible storage configurations through various RAID modes.



Image: The MAIWO K25272C Dual Bay Hard Drive RAID Enclosure, showcasing its compact design and included USB-C to USB-C and USB-C to USB-A data cables, along with the power cable.

2. WHAT'S IN THE BOX

Please verify that all components are present in your package:

- 1x RAID Enclosure for 2.5 inch SATA Drive
- 1x USB3.1 Type-C to Type-C Data Cable
- 1x USB3.1 Type-C to Type-A Data Cable
- 1x Power Cable
- 1x Screwdriver, Screws

3. COMPATIBILITY AND FEATURES

The MAIWO K25272C enclosure is engineered for broad compatibility and high performance:

- **Drive Compatibility:** Supports 2.5-inch 7mm and 9.5mm SATA I/II/III HDDs and SSDs.
- **Capacity:** Each bay supports up to 8TB, for a total capacity of 16TB.

- **Interface:** USB 3.1 Gen 2 Type-C, providing theoretical transfer speeds up to 10Gbps.
- **RAID Modes:** Supports NORMAL (PM), RAID 0 (FAST), RAID 1 (Mirror/SAFE), and LARGE (JBOD).
- **Design:** All-aluminum shell for durability and heat dissipation.
- **Convenience:** Tool-free installation, hot-swapping, plug-and-play functionality.
- **Power:** Independent DC 5V/1A power supply (power cable included). Additional power is required when using this enclosure.

Dual Bay RAID Enclosure

Support 2.5 inch 7mm-9.5mm SATA HDD/SSD

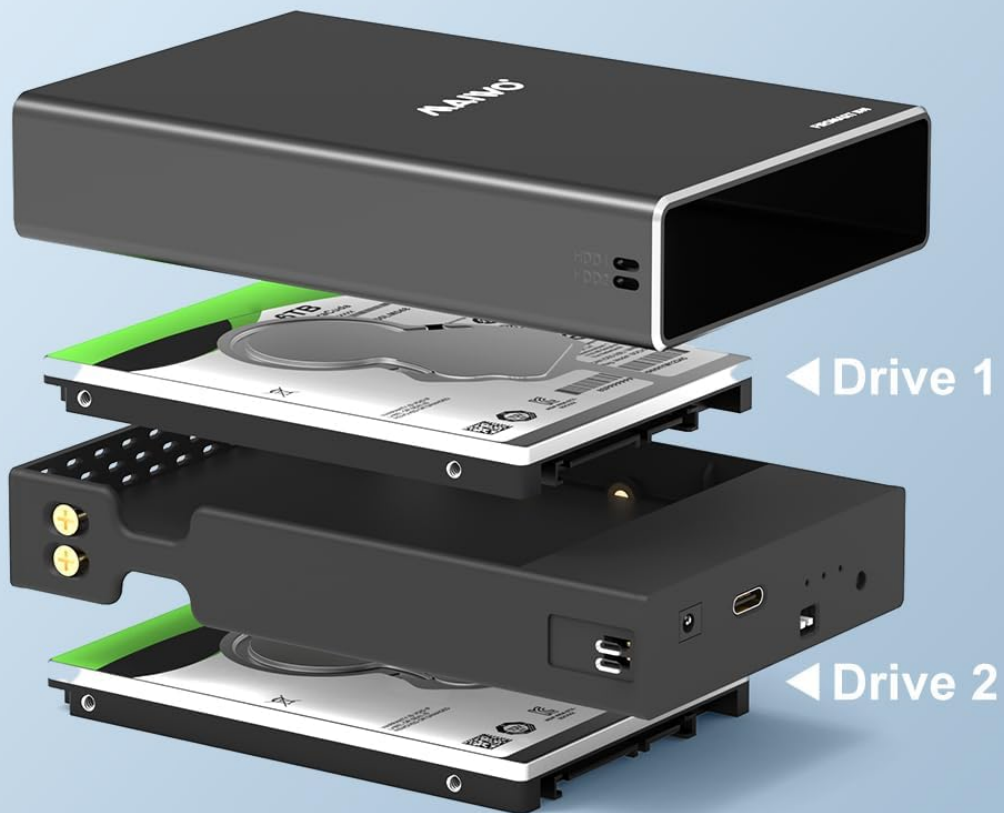


Image: Exploded view illustrating the dual bay design, supporting two 2.5-inch SATA HDD/SSD drives.



Image: Diagram confirming compatibility with 2.5-inch SATA drives, and incompatibility with 3.5-inch SATA and IDE drives.

USB3.1 Gen2 10Gbps Ultra Fast Speed

Equip with SATA 3.0 bridge pattern and ASM1352 high speed chipset, theoretical transfer rate can reach 10Gbps.

Note: The data was from RAID 0 mode and tested by MAIWO, only for reference. The real speed depends on RAID mode, hard disk and PC environment.

Image: The enclosure connected to a laptop, highlighting its USB 3.1 Gen2 10Gbps ultra-fast transfer speed capability.



Image: A close-up view emphasizing the durable all-aluminum shell construction of the enclosure.

4. SETUP GUIDE

Follow these steps to install your 2.5-inch SATA drives into the enclosure:

1. **Step 1: Take out the hard disk bay.** Gently pull the internal tray out from the enclosure.
2. **Step 2: Insert your hard drives to the slots.** Carefully slide your 2.5-inch SATA SSDs or HDDs into the designated slots on the tray. Ensure they are seated firmly.
3. **Step 3: Fix up the hard drives with screws, put the bay into the enclosure.** Use the provided screws to secure the drives to the tray. Then, slide the loaded tray back into the aluminum enclosure until it clicks into place.
4. **Step 4: Fix the hard drive bay to the enclosure with screws.** Use the remaining screws to secure the tray to the outer casing, typically on the sides or back.



Image: Visual step-by-step guide for installing hard drives into the MAIWO enclosure.

Connecting the Enclosure

1. Connect the power cable to the DC IN port on the enclosure and to a power source.
2. Connect one end of the appropriate data cable (USB-C to USB-C or USB-C to USB-A) to the Type-C port on the enclosure and the other end to your computer's USB port.



Image: The MAIWO enclosure with the independent DC 5V/1A power supply connected.

Dual Data Cables

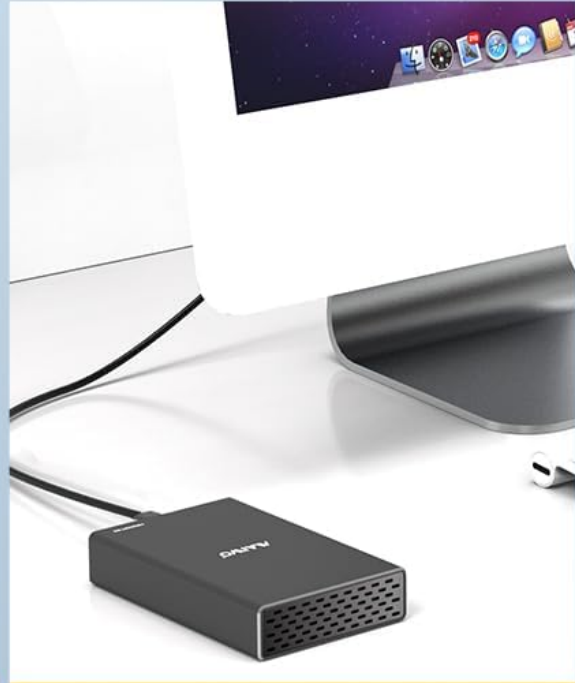
Type-C to Type-C



Max
10Gbps



Type-C to Type-A



Max
5Gbps



Image: Illustration of the two included data cables: Type-C to Type-C (Max 10Gbps) and Type-C to Type-A (Max 5Gbps).

5. OPERATING RAID MODES

The MAIWO K25272C supports four RAID modes, allowing you to configure your drives for different purposes. The mode is selected using the DIP switches on the back of the enclosure. After setting the switches, you must press the RESET button and power cycle the device for the changes to take effect.

WARNING: Pressing the RESET button will erase all data on the drives. Ensure you have backed up any important data before changing RAID modes.

RAID Mode Switch

Note: Pressing RESET button will erase all data in drives.

The diagram shows the MAIWO enclosure with four RAID mode icons: RAID 0 (striped), RAID 1 (mirrored), NORMAL/PM (independent), and LARGE/JBOD (concatenated). The enclosure features a DC IN port, a USB3.1 Type-C port, a RAID Switch with four positions (LARGE, RAID 1, RAID 0, Normal), and a RESET button. Labels below the enclosure identify these components as Power In, USB3.1 Type-C Interface, RAID Switch, RAID Mode Reset Button, and RAID Mode Indicator.

Performance benchmarks for each mode:

Mode	Read [MB/s]	Write [MB/s]
LARGE	478.64	233.98
RAID 0	1076.50	1041.16
RAID 1	477.56	231.90
Normal 0	550.13	533.53

Note: Data tested by MAIWO team, only for reference.

Image: Diagram showing the RAID mode switch settings and corresponding performance benchmarks for each mode.

RAID Mode Descriptions:

- **NORMAL (PM - Port Multiplier):** Each drive appears as an independent disk. No data redundancy or striping.
- **RAID 0 (FAST):** Data is striped across both drives, offering increased read/write performance. No data redundancy; failure of one drive results in data loss.
- **RAID 1 (Mirror/SAFE):** Data is mirrored across both drives, providing data redundancy. If one drive fails, data can be recovered from the other. Usable capacity is limited to that of a single drive.
- **LARGE (JBOD - Just a Bunch Of Disks):** Drives are concatenated to form a single large volume. No performance gain or data redundancy.

Setting RAID Modes:

1. Ensure the enclosure is powered off and disconnected from your computer.
2. Locate the RAID switch (DIP switches) on the back of the enclosure.
3. Adjust the switches according to the desired RAID mode as indicated in the diagram above.
4. Press and hold the RESET button for approximately 5 seconds.
5. Reconnect the power and data cables. The new RAID configuration should now be active.

6. MAINTENANCE

To ensure the longevity and optimal performance of your MAIWO K25272C enclosure:

- Keep the enclosure in a clean, dry environment, away from direct sunlight and extreme temperatures.
- Avoid blocking the ventilation holes to ensure proper airflow and prevent overheating.
- Clean the exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Always safely eject the device from your operating system before disconnecting it or powering it off to prevent data corruption.

7. TROUBLESHOOTING

If you encounter issues with your MAIWO K25272C enclosure, please refer to the following common solutions:

- **Device Not Recognized / Disk Not Ejected Properly:**

- Ensure all cables (power and data) are securely connected.
- Try a different USB port on your computer.
- Test with a different USB cable if available.
- Verify that the drives are properly seated within the enclosure.
- For new drives, ensure they are initialized and formatted by your operating system's disk management utility.
- If the issue persists after a power cycle, try resetting the RAID mode (**WARNING: This will erase data**).

- **Slow Transfer Speeds:**

- Ensure you are connected to a USB 3.1 Gen 2 (10Gbps) compatible port on your computer.
- Verify the data cable used supports 10Gbps (e.g., USB-C to USB-C).
- Performance can vary based on the RAID mode (RAID 0 generally offers highest speed) and the drives used.
- Close other applications that might be consuming system resources or disk I/O.

- **Enclosure Gets Hot:**

- It is normal for the aluminum casing to warm up during operation, as it acts as a heatsink.
- Ensure adequate ventilation around the enclosure. Avoid placing it in enclosed spaces.
- If temperatures seem excessively high or cause instability, reduce continuous heavy data transfer or consider adding external cooling.

- **RAID Mode Not Changing / Reset Button Ineffective:**

- Ensure the enclosure is powered off before adjusting DIP switches.
- Press and hold the RESET button for the specified duration (approx. 5 seconds) after setting the switches.
- Power cycle the enclosure completely after attempting a reset.

8. SPECIFICATIONS

Feature	Specification
Model Number	K25272C
Material	Aluminum, High-strength Plastic Drawer
Compatible Devices	Laptop (PC)
Hard Disk Form Factor	2.5 Inches (7mm/9.5mm SATA HDD/SSD)
Data Transfer Rate	10 Gigabits Per Second (USB 3.1 Gen 2)
Hardware Interface	USB 3.1 Type C
Max Capacity	16TB (8TB per bay)
Product Dimensions	5 x 3 x 1 inches
Item Weight	2.82 ounces (80 Grams)
Color	Black

Feature	Specification
UPC	737838778428

9. WARRANTY INFORMATION

Specific warranty details for this product are typically provided at the point of purchase or within the product packaging. Please retain your proof of purchase for any warranty claims. For general warranty inquiries, refer to the MAIWO official website or contact their customer support.

10. SUPPORT

For further assistance, technical support, or to explore other MAIWO products, please visit the official MAIWO website or their store page on Amazon:

[Visit the MAIWO Store on Amazon](#)