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› Yottamaster 4 Bay RAID Hard Drive Enclosure User Manual

Yottamaster 4 Bay RAID USB

Yottamaster 4 Bay RAID Hard Drive Enclosure User Manual

Model: PS400RU3 | Brand: Yottamaster

1. PRODUCT OVERVIEW

The Yottamaster 4 Bay RAID Hard Drive Enclosure (Model: PS400RU3) is an aluminum USB3.0 enclosure designed for both 3.5-inch and 2.5-inch SATA HDD/SSD drives. It supports a total capacity of up to 72TB (4x18TB) and offers various RAID modes including RAID1, RAID5, RAID10, JBOD, and CLONE for direct attached storage (DAS) solutions. This manual provides essential information for setting up, operating, and maintaining your device.

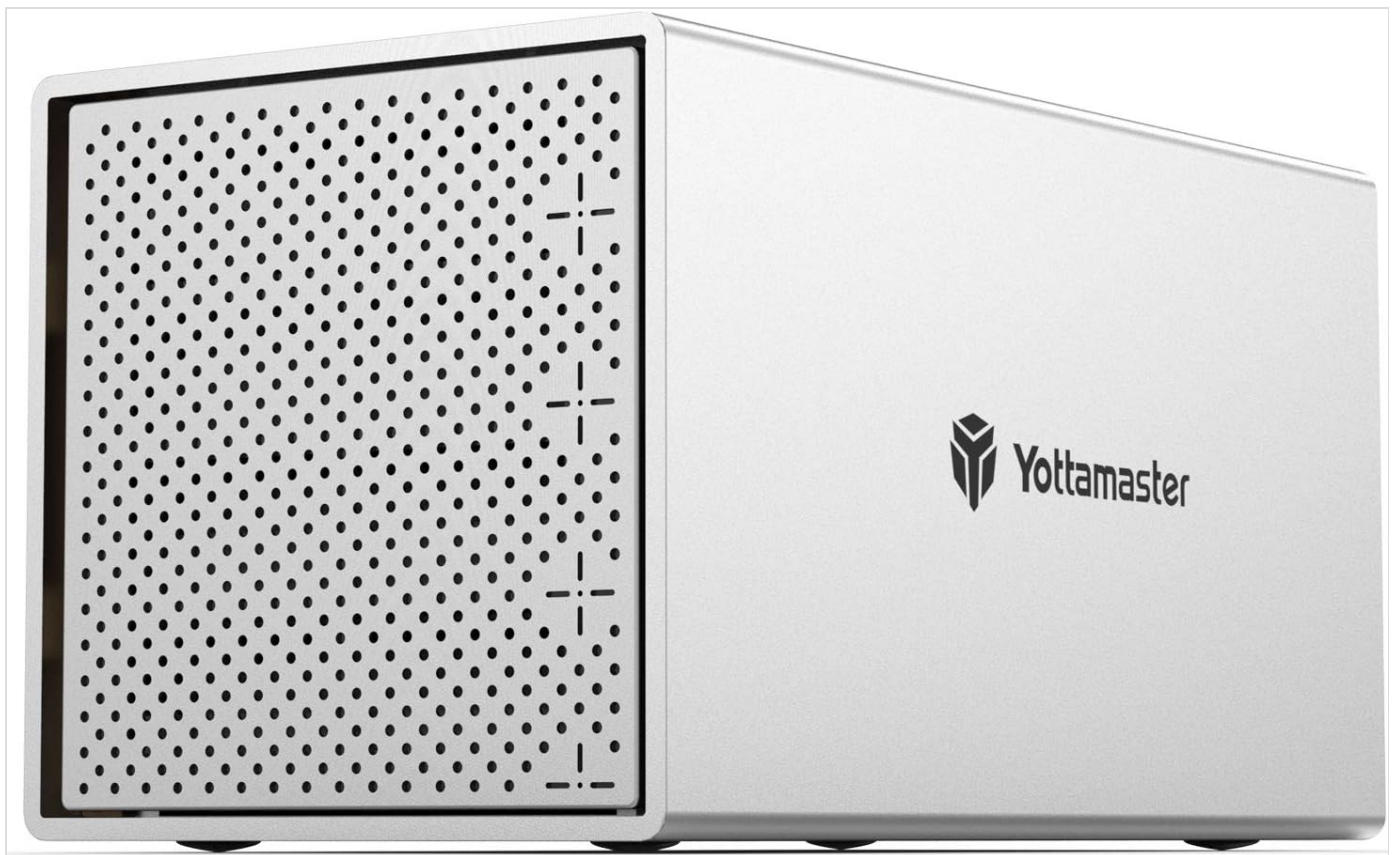


Image: Front view of the Yottamaster 4 Bay RAID Hard Drive Enclosure, showcasing its sleek aluminum design and perforated front panel.

2. PACKAGE CONTENTS

Before proceeding with the setup, please ensure all components are present in the package:

- Yottamaster 4 Bay RAID Hard Drive Enclosure

- Power Adapter and Cable
- USB 3.0 Type-B to Type-A Cable
- Screws for drive installation
- Screwdriver
- User Manual (this document)



Image: All components included with the Yottamaster 4 Bay RAID Enclosure, laid out on a surface, including the enclosure, cables, power adapter, screws, screwdriver, and user manual.

3. SETUP AND RAID CONFIGURATION

This section guides you through the physical installation of hard drives and the configuration of RAID modes. **Before proceeding, ensure you back up any important data on your drives, as RAID configuration will erase all existing data.**

3.1 Drive Installation

1. Open the front door of the enclosure.
2. Gently slide your 3.5-inch or 2.5-inch SATA HDD/SSD drives into the available bays. Ensure they are securely seated.

3. Close the front door.

For 2.5"/3.5" HDD/SSDs

Support single disk up to 16TB



Image: Illustration showing how to insert 3.5-inch HDDs and 2.5-inch SSDs into the drive trays of the Yottamaster enclosure.

3.2 Connecting Cables

Connect the power adapter to the enclosure's DC IN port and plug it into a power outlet. Then, connect the USB 3.0 cable from the enclosure's USB 3.0 Type-B port to an available USB port on your computer.

12V6.5A External Power Supply



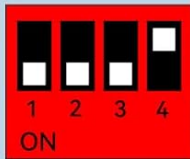
Image: The Yottamaster enclosure connected to a laptop via its USB 3.0 port, illustrating the external power supply connection.

3.3 RAID Mode Configuration (Hardware RAID)

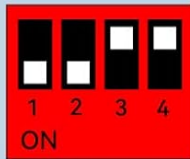
The Yottamaster PS400RU3 enclosure supports hardware RAID configuration using DIP switches on the rear panel. Refer to the diagram below for switch settings for each RAID mode.

Flexible RAID Modes

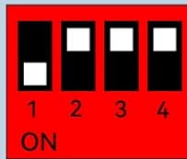
RAID 0



RAID 1/10



RAID 3

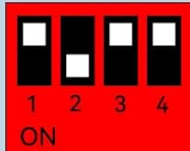


● RAID 0 (DOWN — DOWN — DOWN — UP)

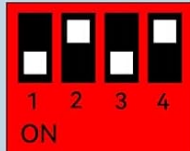
● RAID 1/10 (DOWN— DOWN — UP — UP)

● RAID 3 (DOWN— UP — UP — UP)

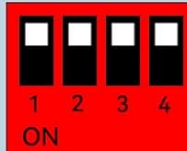
RAID 5



Span(Big)



Normal/Clear



● RAID 5 (UP— DOWN — UP — UP)

● Span(Big) (DOWN— UP — DOWN — UP)

● Normal/Clear (UP— UP — UP — UP)



Image: A detailed diagram showing the DIP switch configurations for RAID 0, RAID 1/10, RAID 3, RAID 5, Span (Big), and Normal/Clear modes on the Yottamaster enclosure's rear panel.

1. Toggle the "RAID control switch" (DIP switches) to the desired RAID mode according to the diagram.
2. While pressing and holding the "SET" button on the rear panel, press the **Power button** to turn on the enclosure.
3. Continue holding the "SET" button for approximately 15 seconds until the indicator light flashes red and blue alternately.
4. Release the "SET" button. The RAID mode is now set.

HARDWARE RAID SET

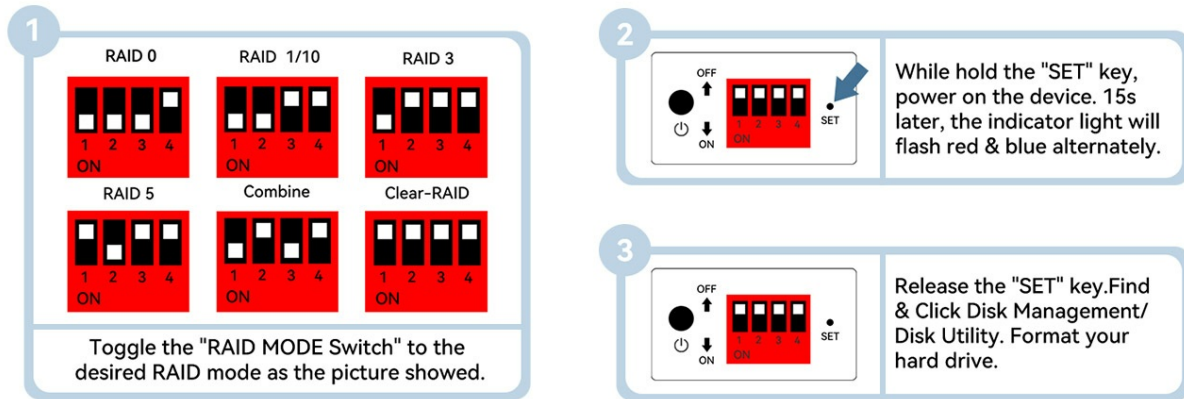


Image: Step-by-step visual guide for setting up hardware RAID using the DIP switches and SET button on the Yottamaster enclosure.

3.4 Disk Initialization and Formatting

After setting the RAID mode, the new RAID volume needs to be initialized and formatted in your operating system.

1. On Windows, right-click "This PC" or "My Computer" and select "Manage". Go to "Disk Management".
2. You should see the new disk (RAID volume) listed as "Unknown" or "Not Initialized". Right-click on it and select "Initialize Disk". Choose MBR (Master Boot Record) for disks up to 2TB or GPT (GUID Partition Table) for disks larger than 2TB.
3. Once initialized, right-click the unallocated space on the new disk and select "New Simple Volume" (or equivalent for your OS) to create a partition and format it. Follow the on-screen wizard to complete the process.
4. After formatting, the RAID volume will appear as a new drive in your file explorer, ready for use.

3.5 Setup Video Guide

For a visual walkthrough of the RAID setup process, please refer to the official video below:



Video: "How to Setup RAID For Yottamaster RAID SSD Enclosure" - This video demonstrates the step-by-step process of installing drives, connecting cables, setting DIP switches, and initializing the RAID volume in Disk Management.

4. OPERATING THE ENCLOSURE

Once the RAID volume is successfully set up and recognized by your computer, you can use it like any other external hard drive. Drag and drop files, create folders, and manage your data as needed.

4.1 Power On/Off

Press the Power button on the rear of the enclosure to turn it on or off. Ensure your computer is properly shut down or the drive is safely ejected before powering off the enclosure to prevent data loss.

4.2 LED Indicators

The enclosure features LED indicators on the front panel that provide status information for each drive bay and the overall unit. Refer to the product diagram for indicator locations.

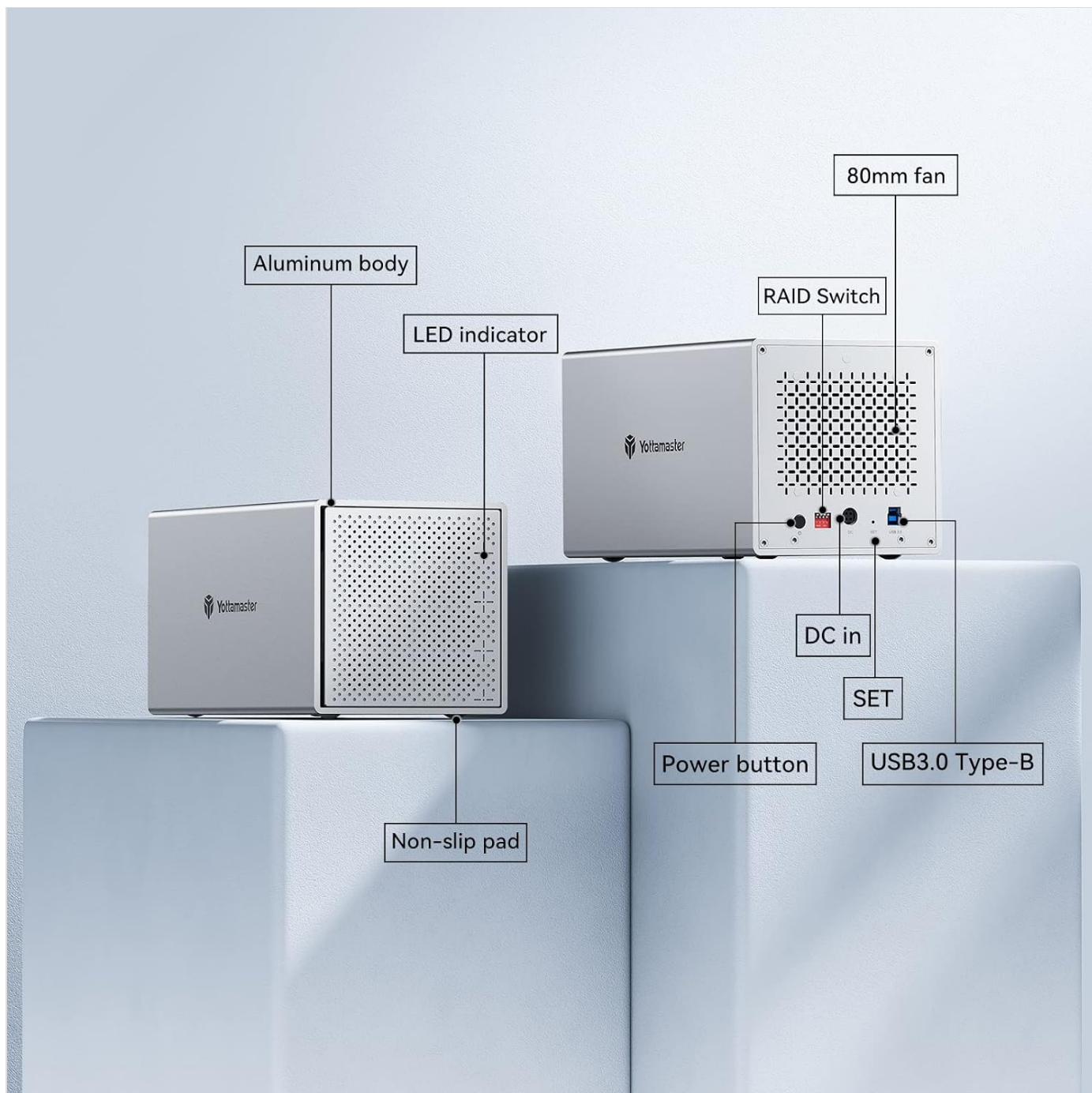


Image: Diagram of the Yottamaster enclosure highlighting key components such as the aluminum body, LED indicators, non-slip pads, 80mm fan, RAID switch, DC IN port, SET button, Power button, and USB3.0 Type-B port.

4.3 Cooling System

The enclosure is designed with an 80mm cooling fan and an all-aluminum body to ensure efficient heat dissipation and maintain optimal operating temperatures for your drives.

80mm Cooling Fan Inside

Speed up air convection and rapid cooling



How to keep normal temperature?

- > Cool All-aluminum Enclosure
- > 80MM Silent Fan
- > Front and Rear with Cooling Holes

Image: Exploded view of the Yottamaster enclosure showing the internal 80mm cooling fan and airflow paths, emphasizing the all-aluminum construction for heat management.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Yottamaster enclosure.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the enclosure. Avoid liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the enclosure is placed in a well-ventilated area to allow for proper airflow and prevent overheating. Do not block the front or rear cooling holes.
- **Drive Health:** Regularly check the health of your hard drives using your operating system's disk utility tools.

6. TROUBLESHOOTING

If you encounter issues with your Yottamaster enclosure, refer to the following common troubleshooting steps:

- **Enclosure not recognized:**
 - Ensure all cables (power and USB) are securely connected.

- Try connecting to a different USB port on your computer.
- Verify the power adapter is functioning correctly.

- **Drives not appearing in Disk Management:**

- Confirm that the drives are properly seated in their bays.
- Re-check the RAID DIP switch settings and ensure the "SET" button procedure was followed correctly during power-on.
- Ensure the drives themselves are functional by testing them individually if possible.

- **Slow transfer speeds:**

- Ensure you are using a USB 3.0 port on your computer.
- Check the health of your hard drives.
- Verify that your operating system and drivers are up to date.

- **RAID volume shows as "RAW" or corrupted:**

- This often indicates a formatting issue or a drive failure within the RAID array. Do not attempt to reformat without data recovery if data is critical.
- For RAID 5, if one drive fails, the array should remain accessible. Replace the failed drive and allow the array to rebuild. If multiple drives fail, data recovery may be required.

For more detailed troubleshooting, please refer to the official Yottamaster support resources or contact customer service.

7. SPECIFICATIONS

Feature	Detail
Brand	Yottamaster
Model Number	4 Bay RAID USB (PS400RU3)
Material	Aluminum
Supported Drive Bays	4 Bays
Supported Drive Types	3.5-inch & 2.5-inch SATA HDD/SSD
Max Capacity Supported	72TB (4x18TB)
RAID Modes	RAID1, RAID5, RAID10, JBOD, CLONE
Hardware Interface	USB 3.0
Data Transfer Rate	5 Gigabits Per Second (USB 3.0)
Product Dimensions	9.92 x 5.35 x 6.65 inches
Item Weight	7.33 pounds
Compatible Operating Systems	Windows (and generally macOS, Linux)

8. WARRANTY AND SUPPORT

Yottamaster is committed to providing professional-grade storage solutions. This product comes with a **2-year warranty** from the date of purchase.



Image: A shield icon indicating a 2-year warranty, symbolizing product reliability and customer assurance.

For technical support, warranty claims, or further inquiries, please visit the official Yottamaster website or contact their customer service team. You may also find additional resources and FAQs on their brand store page.

Yottamaster aims to provide professional-grade storage solutions for individuals, small, and medium enterprises worldwide.

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Question

Details

Submit question

