

Yottamaster DR2RU3-25

Yottamaster DR2RU3-25 Dual Bay 2.5" RAID Enclosure User Manual

Model: DR2RU3-25

1. INTRODUCTION

Thank you for choosing the Yottamaster DR2RU3-25 Dual Bay 2.5" RAID Enclosure. This manual provides essential information for the proper installation, configuration, and operation of your device. Please read it thoroughly before use to ensure optimal performance and data integrity.

2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- Yottamaster DR2RU3-25 Dual Bay 2.5" RAID Enclosure
- USB 3.0 Type-A to Type-B Data Cable
- 5V 2A Power Adapter
- Screwdriver
- Set of Screws for drive installation
- User Manual (this document)

3. PRODUCT FEATURES

- **Dual Bay Design:** Supports two 2.5-inch SATA I/II/III HDDs or SSDs.
- **High Capacity:** Accommodates drives with thicknesses of 7mm, 9mm, and 12.5mm, supporting up to 8TB total storage.
- **USB 3.0 Connectivity:** Offers data transfer speeds up to 5Gbps with UASP protocol support.
- **RAID Modes:** Supports RAID 0, RAID 1, SPAN (JBOD), and PM (Individual) modes for flexible data management.
- **Efficient Heat Dissipation:** Constructed with an all-aluminum alloy chassis and cooling holes for optimal thermal performance.
- **External Power Supply:** Includes a 5V 2A power adapter for stable operation.

- **Auto-Sleep Function:** Automatically enters sleep mode after 10 minutes of inactivity to conserve energy and extend drive lifespan.
- **Wide Compatibility:** Compatible with Windows, Linux, and macOS operating systems.
- **Compact Design:** Dimensions of 166mm (L) x 111mm (H) x 48mm (W).



Figure 3.1: USB 3.0 5Gbps Transfer Speed and OS Compatibility

2 Bay RAID 2.5" Hard Drive Enclosure



Support up to 8TB
Support 7/9/12.5 2.5" SATA HDD/SSDs



7mm



9mm



12.5mm

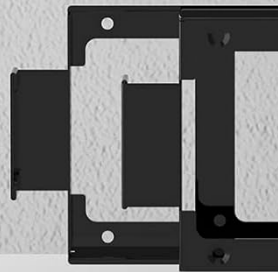


Figure 3.2: Dual Bay Design and Drive Compatibility (7mm, 9mm, 12.5mm)

For more information on the Western Digital drive shown, visit: <http://qr.wdc.com/wdred>

Better Heat Dissipation Performance



All Aluminum Structure, Front and Rear Cooling Holes



Figure 3.3: Enclosure Design with Cooling and Ports

Auto-Sleep Function



Save Energy, Extend HDD Life



Hard disk will enter sleep mode if there is no data exchange within 10 min.

Figure 3.4: Auto-Sleep Function

4. SETUP INSTRUCTIONS

4.1. Installing Hard Drives/SSDs

1. Gently slide open the front panel of the enclosure to access the drive bays.



Figure 4.1: Opening the Enclosure

2. Mount your 2.5-inch SATA HDD or SSD onto the provided drive tray using the included screws and screwdriver. Ensure the drive is securely fastened.



Figure 4.2: Mounting Drive to Tray

3. Slide the drive tray with the installed drive into an available bay within the enclosure until it clicks into place. Repeat for the second drive if applicable.

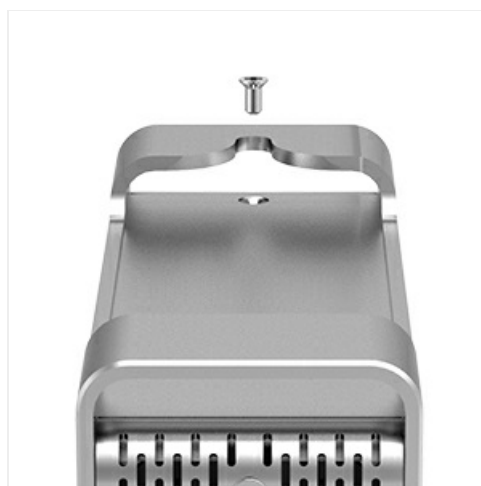


Figure 4.3: Inserting Drive Tray into Enclosure

4. Close the front panel of the enclosure.

4.2. Setting RAID Mode

The Yottamaster DR2RU3-25 supports multiple RAID modes configured via DIP switches on the rear of the enclosure. **Always ensure the enclosure is powered off before changing RAID mode settings.**

1. Locate the DIP switches on the rear panel of the enclosure.
2. Refer to the diagram below to set the desired RAID mode.
3. After setting the DIP switches, power on the enclosure.
4. **Important:** After changing the RAID mode, you must initialize and format the drives on your computer. This process will erase all existing data on the drives. Back up any important data before proceeding.

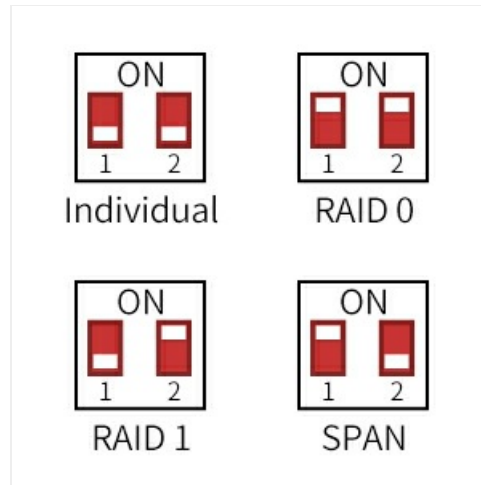


Figure 4.4: RAID Mode DIP Switch Settings

5. OPERATING INSTRUCTIONS

5.1. Connecting to Your Computer

1. Connect the USB 3.0 Type-B end of the data cable to the corresponding port on the rear of the enclosure.
2. Connect the USB 3.0 Type-A end of the data cable to an available USB port on your computer.
3. Connect the 5V 2A power adapter to the DC input port on the enclosure, then plug the adapter into a power outlet.

5V 2A External Power Supply



Ensure stable running of multiple hard drives

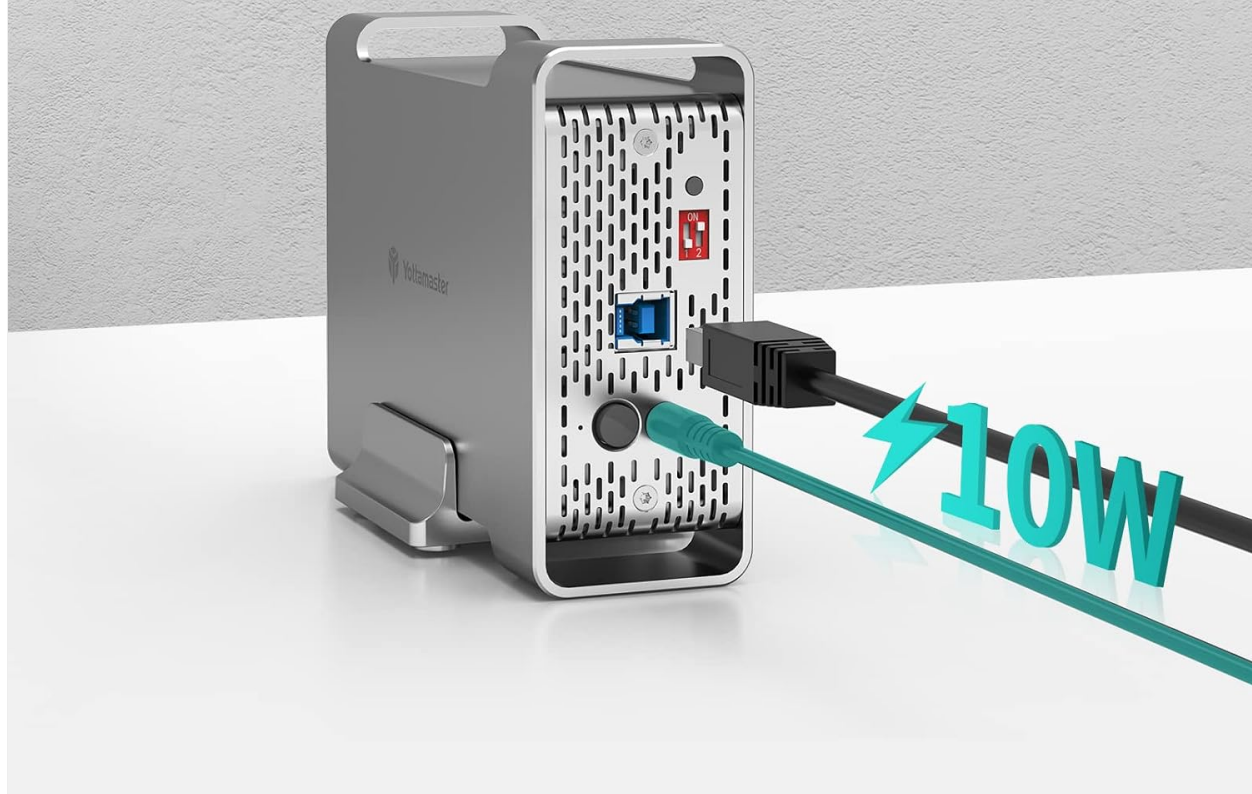


Figure 5.1: Connecting Power and Data Cables

4. Press the power button on the enclosure to turn it on. The LED indicator will illuminate.
5. Your computer should detect the new hardware. For new drives or after changing RAID modes, you may need to initialize and format the drives through your operating system's Disk Management utility (Windows) or Disk Utility (macOS).

5.2. Auto-Sleep Function

The enclosure features an auto-sleep function. If there is no data exchange or activity for approximately 10 minutes, the hard drives will enter sleep mode. This helps to save power and prolong the lifespan of your drives. The drives will automatically wake up when data access is requested.

6. RAID MODE CONFIGURATION DETAILS

Understanding the different RAID modes is crucial for optimal data management. Remember to power off the enclosure before adjusting DIP switches and re-initialize/format drives after any change.

RAID 0/1/SPAN/PM



Make choices at your needs



	RAID Mode	Storage Capacity	Data Security	Speed
	RAID 0			
	RAID 1			
	JBOD(SPAN)			

Figure 6.1: RAID Mode Comparison

- **PM (Individual Mode):** Each installed drive is recognized as a separate, independent volume by the operating system. This mode offers no data redundancy or performance enhancement.
- **RAID 0 (Striping):** Data is split into blocks and written across both drives. This mode offers the highest read/write speeds and combines the capacity of both drives. **Warning: If one drive fails, all data on both drives will be lost.**
- **RAID 1 (Mirroring):** Data is simultaneously written to both drives, creating an exact copy. This mode provides excellent data redundancy; if one drive fails, your data is still accessible on the other. The total usable capacity is limited to that of the smaller drive.
- **SPAN (JBOD - Just a Bunch Of Disks):** Drives are concatenated to form one large logical volume. Data is written sequentially to the first drive until it's full, then to the second. This mode offers combined capacity but no performance improvement or data redundancy. **Warning: If one drive fails, data on both drives may be lost.**

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the enclosure. Avoid liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the cooling holes on the enclosure are not obstructed to maintain proper airflow and heat dissipation.

- **Proper Shutdown:** Always safely eject or unmount the drives from your operating system before powering off the enclosure or disconnecting the USB cable to prevent data corruption.
- **Firmware Updates:** Check the Yottamaster official website periodically for any available firmware updates for your model.

8. TROUBLESHOOTING

Common Issues and Solutions:

- **Enclosure not detected by computer:**
 - Ensure the USB cable is securely connected to both the enclosure and the computer.
 - Verify the power adapter is properly connected and the enclosure is powered on.
 - Try a different USB port on your computer or a different USB cable.
- **Drives not appearing in 'My Computer' or 'Finder':**
 - For new drives or after changing RAID modes, drives need to be initialized and formatted. Access Disk Management (Windows) or Disk Utility (macOS) to perform these actions.
 - Ensure drives are correctly installed in the enclosure bays.
 - Check the RAID mode settings via the DIP switches.
- **Slow transfer speeds:**
 - Ensure you are connected to a USB 3.0 port on your computer.
 - Verify your drives are healthy and not experiencing issues.
 - Check if UASP is enabled by your operating system and drivers.
- **RAID mode not functioning as expected:**
 - Power off the enclosure. Double-check the DIP switch settings against the manual's diagram.
 - Power on the enclosure and re-initialize/format the drives.
 - Ensure both drives are of similar capacity and type for optimal RAID performance.

9. SPECIFICATIONS

Model Number	DR2RU3-25
Brand	Yottamaster
Drive Bays	2
Compatible Drives	2.5" SATA I/II/III HDD/SSD (7mm, 9mm, 12.5mm thickness)
Max Capacity	Up to 8TB (4TB per bay)
Connectivity	USB 3.0 Type-B
Transfer Speed	Up to 5Gbps (USB 3.0)
RAID Modes	RAID 0, RAID 1, SPAN (JBOD), PM (Individual)
Power Supply	External 5V 2A Power Adapter
Material	Aluminum Alloy

Dimensions (L x H x W)	166mm x 111mm x 48mm
Operating System Support	Windows, Linux, macOS

10. WARRANTY AND SUPPORT

Yottamaster products come with a standard manufacturer's warranty. For specific warranty terms, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official Yottamaster website. You can also contact Yottamaster customer support directly for assistance.