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Yottamaster DR2RC3-35

Yottamaster 2 Bay RAID Hard Drive Enclosure User Manual

Model: DR2RC3-35

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Yottamaster 2 Bay RAID Hard Drive Enclosure. This device is designed to provide high-speed data transfer and flexible storage solutions for 3.5-inch SATA HDDs, supporting various RAID configurations.



Figure 1: Yottamaster 2 Bay RAID Hard Drive Enclosure (Model DR2RC3-35)

The image displays the Yottamaster 2 Bay RAID Hard Drive Enclosure, a sleek, silver-colored device with a perforated front panel for ventilation and the Yottamaster logo on the side. It is designed to house two 3.5-inch hard drives.

Setup and Installation

1. Hard Drive Installation

1. Carefully slide open the enclosure's front panel.
2. Insert your 3.5-inch SATA hard drives into the bays. Ensure they are securely seated in the SATA connectors.
3. Close the front panel securely.



Figure 2: Hard Drive Installation

This image illustrates the process of installing a 3.5-inch SATA hard drive into one of the bays of the Yottamaster enclosure. A Western Digital Red 2TB HDD is shown next to the open enclosure, ready for insertion. The enclosure supports up to 32TB total capacity.

For more information on Western Digital Red drives, visit http://qr.wdc.com/wdred.

2. RAID Mode Configuration

The enclosure supports RAID 0, RAID 1, SPAN (JBOD), and PM (Port Multiplier) modes. Use the DIP switches located at the rear of the enclosure to select your desired RAID mode. After changing the DIP switch settings, you must press the reset button to apply the new configuration.

- **RAID 0 (Striping):** Combines drives for maximum speed and capacity, but offers no data redundancy.
- **RAID 1 (Mirroring):** Duplicates data across drives for maximum data security, reducing usable capacity by half.
- **SPAN (JBOD):** Combines drives into a single large volume without striping or mirroring, offering maximum capacity.
- **PM (Port Multiplier):** Each drive is recognized as an independent volume.

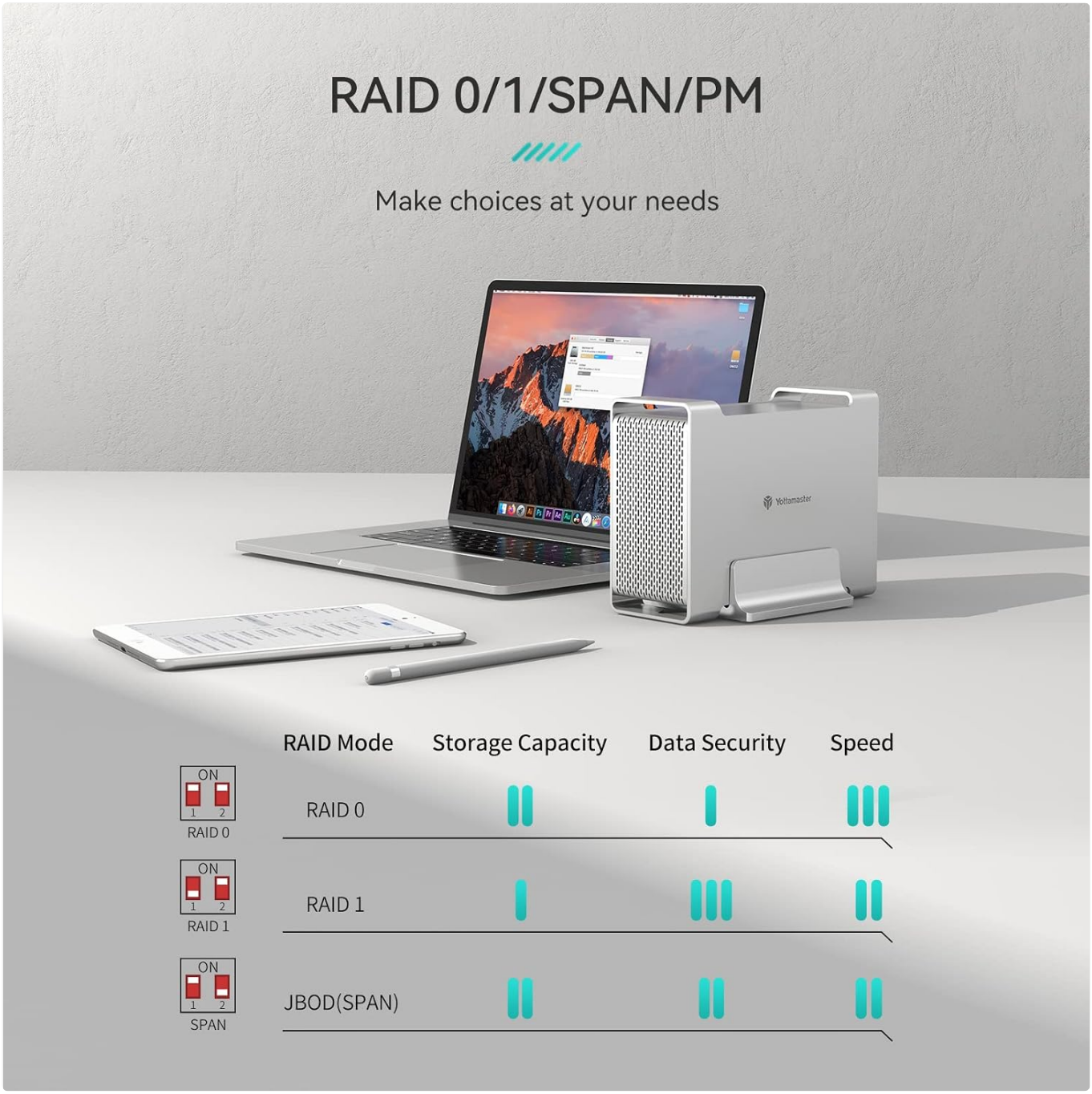

Figure 3: RAID Mode Configuration

This image shows the rear of the enclosure with the DIP switches used for RAID configuration. A table below the enclosure illustrates the characteristics of RAID 0, RAID 1, and SPAN modes in terms of storage capacity, data security, and speed.

Figure 4: Detailed DIP Switch Settings

This image provides a close-up diagram of the DIP switch positions for PM, RAID 0, RAID 1, and SPAN modes. Each mode shows the specific "ON" or "OFF" position for switches 1 and 2.

3. Connecting to Your Computer

Connect the enclosure to your computer using the provided USB3.1 Gen2 Type-C cable. The enclosure is compatible with Windows, Mac OS, and Linux systems. No driver installation is required for basic functionality.



Figure 5: High-Speed Connectivity

This image highlights the USB3.1 Gen2 10Gbps transfer speed capability of the enclosure, featuring a Type-C port. It also indicates compatibility with Windows, Linux, and Mac OS operating systems.

4. Power Connection

Connect the 12V/4A external power adapter to the enclosure and then to a power outlet. Ensure the power connection is stable for optimal performance.



Figure 6: External Power Supply

The image shows the rear of the enclosure with the power adapter connected, emphasizing the 12V 4A (48W) external power supply which ensures stable operation for multiple hard drives.

Operating Instructions

Data Transfer

The Yottamaster enclosure supports USB3.1 Gen2 with a 10Gbps transfer rate, utilizing the UASP protocol for enhanced speed. Once connected, your computer should recognize the enclosure and its drives as external storage. You can then drag and drop files, or use your operating system's file management tools to transfer data.

Automatic Sleep Mode

For energy saving and to extend HDD life, the enclosure will automatically enter sleep mode after 10 minutes of data inactivity. It will wake up automatically upon data access.

Hot Swapping

The enclosure supports hot swapping, allowing you to connect or disconnect drives without powering down the system, provided the operating system supports it and no data transfer is in progress on the specific drive being swapped.

Maintenance

Heat Dissipation

The enclosure features an all-aluminum shell body and meteor radiators at the front and rear, designed for efficient heat dissipation and air ventilation. Ensure that the ventilation holes are not obstructed to maintain optimal cooling performance.



Figure 7: Enhanced Heat Dissipation

This image displays the front and rear views of the enclosure, highlighting the all-aluminum structure and the cooling holes designed for superior heat dissipation.

Cleaning

To clean the enclosure, use a soft, dry cloth. Avoid using liquid cleaners or aerosols, as they may damage the device. Periodically check the ventilation holes for dust accumulation and gently clear them if necessary.

Troubleshooting

- **Enclosure not recognized by computer:**
  - Ensure all cables (USB and power) are securely connected.
  - Try connecting to a different USB port on your computer.
  - Verify that the external power adapter is functioning correctly and providing power.
  - Restart your computer.
  - Check your computer's Disk Management (Windows) or Disk Utility (Mac) to see if the drives are detected but uninitialized or unformatted.
- **Intermittent disconnections or freezing:**
  - Ensure the USB cable is not damaged and is securely connected.
  - Avoid placing the enclosure near strong electromagnetic interference sources.
  - Verify that your hard drives are healthy and not experiencing issues.
  - Ensure adequate ventilation around the enclosure to prevent overheating.
  - Update your computer's USB drivers.
- **RAID configuration issues:**
  - After changing DIP switch settings, always press the reset button on the rear of the enclosure to apply the new configuration.
  - Ensure hard drives are properly installed before configuring RAID.
  - If switching RAID modes, data on the drives will be erased. Back up important data before reconfiguring.

Specifications

Feature	Detail
Product Dimensions	12.6 x 16.7 x 18.9 cm
Weight	1.68 kg
Manufacturer	Yottamaster
ASIN	B09NKW5KPS
Item Model Number	DR2RC3-35 (10Gbps & Type-C & 32TB)
Hardware Interface	USB 3.1 Gen2 Type-C (10Gbps)
Brand	Yottamaster
Colour	Blue (Note: Product images show a silver color, but specifications list blue.)
Hardware Platform Compatibility	Linux, Windows, Mac OS
Material	Aluminium
Supported HDD Size	3.5-inch SATA HDDs
Max Capacity	Up to 32TB (2 x 16TB)

Power Supply	12V/4A External Power Adapter
RAID Modes	RAID 0, RAID 1, SPAN (JBOD), PM (Port Multiplier)

Warranty and Support

Yottamaster products typically come with a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Yottamaster website for detailed warranty terms and conditions. For technical support, troubleshooting assistance, or any product-related inquiries, please contact Yottamaster customer service through their official channels.

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