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Yottamaster DF5RU3

Yottamaster 5 Bay RAID Hard Drive Enclosure User Manual

Model: DF5RU3 | Brand: Yottamaster

1. Introduction

The Yottamaster 5 Bay RAID Hard Drive Enclosure (Model DF5RU3) is a high-capacity external storage solution designed for both 2.5-inch and 3.5-inch SATA HDDs/SSDs. It supports up to 90TB (5 x 18TB) of storage and offers various RAID modes (0/1/3/5/10/Span/Clone/Normal) for flexible data management, security, and performance. Featuring a robust aluminum unibody design with translucent side panels and an 80mm RGB fan, it provides efficient cooling and a visually appealing aesthetic. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.



Figure 1.1: Yottamaster 5 Bay RAID Hard Drive Enclosure (DF5RU3)

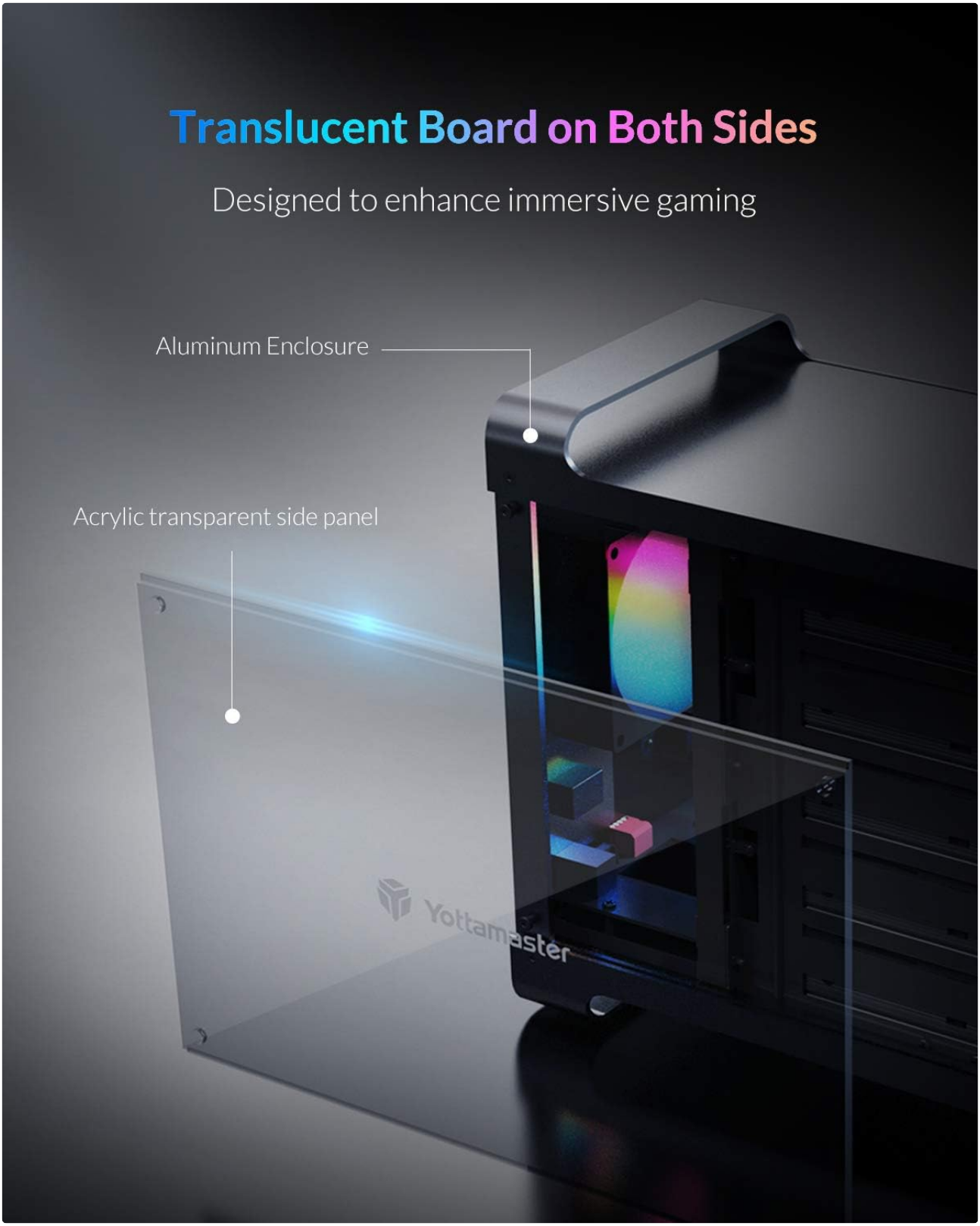


Figure 1.2: Translucent side panels for enhanced aesthetics.

2. Safety Guidelines

Please read and follow these safety instructions carefully to prevent damage to the device, data loss, or personal injury.

- Do not expose the enclosure to water, moisture, or extreme temperatures.

- Avoid dropping or subjecting the device to strong impacts.
- Use only the provided power adapter. Using an incorrect power adapter may damage the device and void the warranty.
- Ensure proper ventilation around the enclosure to prevent overheating. Do not block the fan or ventilation openings.
- Before installing or removing hard drives, ensure the enclosure is powered off and disconnected from the computer.
- Always back up important data before performing any RAID configuration changes, as this will clear all data on the hard drives.
- Keep out of reach of children.

3. Package Contents

Verify that all items are present in your package:

- Yottamaster 5 Bay RAID Hard Drive Enclosure (DF5RU3)
- USB 3.0 Type-B to Type-A Cable
- Power Adapter
- Power Cable
- Hard Drive Trays (5x)
- Screws for HDD/SSD mounting
- Screwdriver
- User Manual (this document)

Video 3.1: Yottamaster Y-Defender Series DF5U3 Unboxing. This video demonstrates the unboxing process and shows the components included with the Yottamaster DF5U3 enclosure.

4. Setup

4.1 Drive Installation

1. Ensure the enclosure is powered off and disconnected from your computer.
2. Gently pull the lever on the front of an empty drive bay to release and slide out a hard drive tray.
3. Place your 2.5-inch or 3.5-inch SATA HDD/SSD into the tray. Align the screw holes on the drive with those on the tray.
4. Secure the drive to the tray using the provided screws and screwdriver.
5. Slide the loaded tray back into the enclosure until it clicks securely into place.
6. Repeat for all desired drives.



Figure 4.1: The enclosure supports both 2.5-inch and 3.5-inch SATA HDD/SSD, with individual trays for easy installation.

4.2 Connecting the Enclosure

1. Connect the USB 3.0 Type-B cable to the corresponding port on the back of the enclosure.
2. Connect the other end of the USB cable to an available USB 3.0 port on your computer.
3. Connect the power adapter to the AC-in port on the enclosure and plug the power cable into a wall outlet.
4. Press the power switch on the back of the enclosure to turn it on. The RGB fan will illuminate, and blue indicator lights will show for each installed drive.



Figure 4.2: Rear panel connections including AC-in, Power Switch, USB 3.0 Type-B, and RAID mode switches.

4.3 Initial Disk Formatting

If you are using brand new hard drives, they may need to be formatted and partitioned before they can be recognized by your operating system.

- **For Windows:** Open Disk Management (Right-click 'This PC' > 'Manage' > 'Disk Management'). Locate the new disk(s), initialize them (MBR or GPT), and then create new simple volumes.
- **For macOS:** Open Disk Utility (Applications > Utilities > Disk Utility). Select the new disk(s), erase them (format as APFS or Mac OS Extended), and then partition if necessary.

Video 4.3: How to Format a Hard Drive Partition in Windows/Mac OS. This video provides a step-by-step guide on formatting and partitioning hard drives for use with the enclosure on both Windows and macOS.

4.4 RAID Configuration

The DF5RU3 enclosure supports multiple RAID modes.**WARNING: Setting or changing the RAID mode will clear all data on the hard drives. Ensure you back up your important data before proceeding.**
To configure RAID modes:

1. Ensure the enclosure is powered off.
2. Refer to the RAID mode table (Figure 4.4) and the DIP switch settings on the back of the enclosure.
3. Adjust the DIP switches according to the desired RAID mode.
4. Press and hold the 'SET' button on the back of the enclosure, then power on the device. Continue holding the 'SET' button until the RAID mode is configured (usually indicated by a change in LED behavior or a confirmation sound).
5. Release the 'SET' button.
6. Connect the enclosure to your computer and format the new RAID volume as described in Section 4.3.



Figure 4.4: RAID Mode Table. This table outlines the characteristics of each supported RAID mode, including minimum disk requirements, data capacity, security, and speed.

Video 4.5: Setup RAID with Yottamaster External Hard Drive Enclosure. This video guides you through the process of setting up RAID configurations on your Yottamaster enclosure.

Video 4.6: Modify RAID Modes with RAID Management Software on Windows. Learn how to adjust RAID modes using the dedicated management software on a Windows operating system.

Video 4.7: Choosing the Right RAID Level for Your Hardware Setup. This video provides insights into selecting the most suitable RAID level based on your specific needs for performance, redundancy, and capacity.

5. Operation

5.1 Data Transfer

Once the enclosure is connected and drives are formatted (or RAID configured), the storage volume(s) will appear as regular drives on your computer. You can drag and drop files, copy, paste, or use any file management software to transfer data to and from the enclosure. The USB 3.0 interface provides fast data transfer speeds up to 5Gbps.



Figure 5.1: Enjoying 5Gbps Super-Fast Data Transfer for various applications.

5.2 Managing Sleep Mode

The enclosure may enter a sleep mode after a period of inactivity to conserve power and reduce wear on the drives. If you experience unexpected disconnections or prefer the drives to remain active, you can adjust or disable the sleep mode setting.

- **Software Adjustment:** Yottamaster provides software tools on their official website that allow you to configure various settings, including sleep mode. Set the sleep timer to

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