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Yottamaster VN400RU3-RAID

Yottamaster VN400RU3 4-Bay RAID Hard Drive Enclosure User Manual

Model: VN400RU3-RAID | Brand: Yottamaster

1. Product Overview

The Yottamaster VN400RU3 is a high-capacity 4-bay RAID hard drive enclosure designed for efficient data storage and management. It supports both 2.5-inch and 3.5-inch SATA HDDs and SSDs, offering a total storage capacity of up to 88TB (4 x 22TB). This enclosure provides flexible RAID configurations to meet various data redundancy and performance needs, making it suitable for professional and personal use cases such as video editing, data backup, and server expansion.



Figure 1: Yottamaster VN400RU3 4-Bay RAID Hard Drive Enclosure.

Key Features:

- **Massive Storage Capacity:** Supports up to 88TB (4 x 22TB) for 2.5-inch and 3.5-inch SATA HDDs/SSDs.
- **Hardware RAID Support:** Configurable RAID modes including RAID 0, RAID 1, RAID 3, RAID 5, RAID 10, JBOD, and Normal (PM) for enhanced data redundancy and performance.
- **High-Speed Data Transfer:** USB 3.0 Type B interface provides data transfer speeds up to 5Gbps.
- **Efficient Cooling System:** Features a stylish aluminum casing, front and rear cooling holes, and an 80mm cooling fan for optimal heat dissipation.
- **Hot-Swappable Drive Bays:** Allows for easy insertion and removal of hard drives without powering down the device.
- **Built-in Power Supply:** Equipped with a 150W power supply and supports auto power-on after a power loss.

2. What's in the Box

Please check the contents of your package to ensure all items are present:

- 1 x Yottamaster VN400RU3 4-Bay RAID Hard Drive Enclosure
- 1 x Power Cord
- 1 x USB-A to Type-B Data Cable
- Screws (for drive installation)
- 1 x Screwdriver
- 1 x User Manual (this document)



Figure 2: Contents of the Yottamaster VN400RU3 package.

3. Setup & Installation

3.1 Hard Drive Installation

The Yottamaster VN400RU3 supports both 2.5-inch and 3.5-inch SATA HDDs/SSDs. Follow these steps to install your drives:

1. Press the door button on the front of the enclosure and pull left to open the drive bay.
2. Pull the empty drive tray out by its handle.
3. For 3.5-inch HDDs, secure the drive to the tray using 4 side screws. For 2.5-inch HDDs/SSDs, secure the drive to the tray using 4 bottom screws.
4. Carefully insert the loaded tray back into the enclosure until it clicks into place. Close the door.
5. Repeat for all desired drive bays.

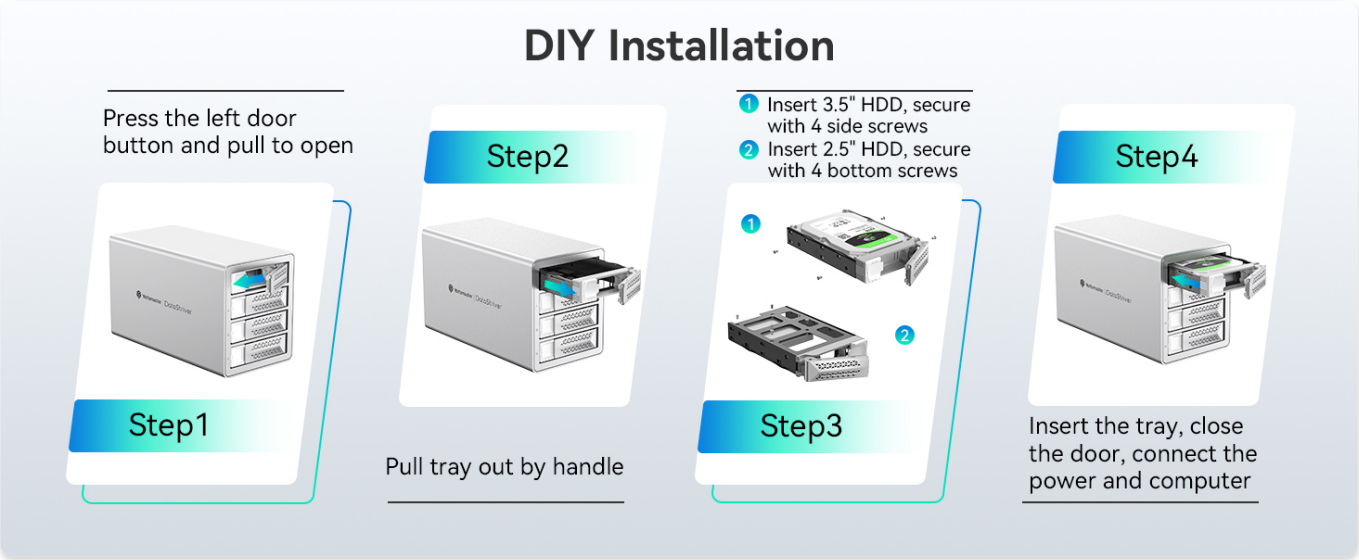

Figure 3: Hard drive installation process.

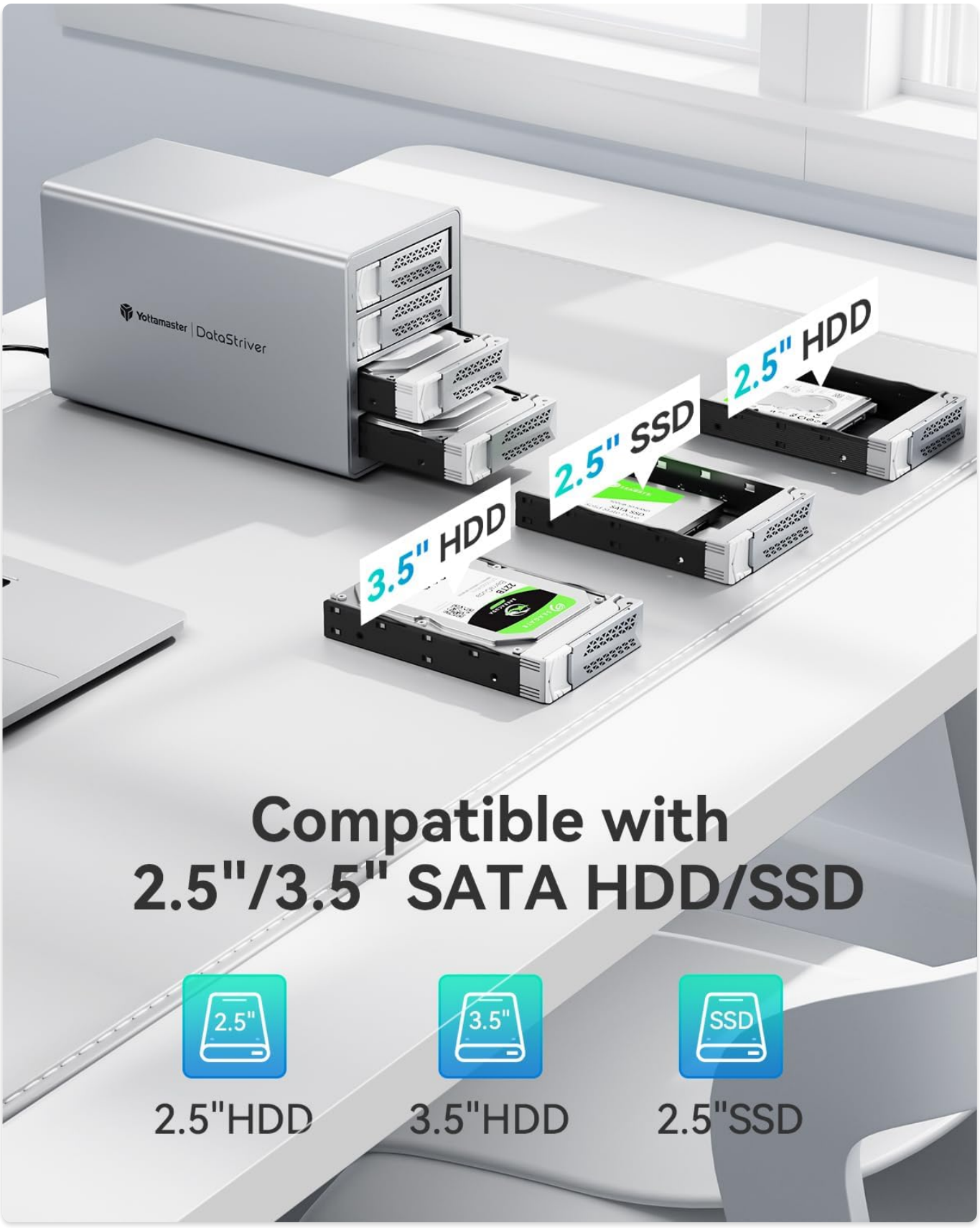

Figure 4: The enclosure is compatible with 2.5-inch and 3.5-inch SATA HDDs/SSDs.

3.2 Connecting to Your Computer

After installing the hard drives, connect the enclosure to your computer:

1. Connect the power cord to the enclosure and a power outlet.
2. Connect the USB-A to Type-B data cable from the enclosure's USB 3.0 Type B port to an available USB port on your computer.

3. Press the power button on the back of the enclosure to turn it on.

3.3 RAID Configuration

Important: Back up all data on your hard drives before setting up or changing RAID modes, as this process will erase all existing data.

The Yottamaster VN400RU3 offers two methods for RAID configuration: via RAID Manager Software or via RAID DIP Switch.

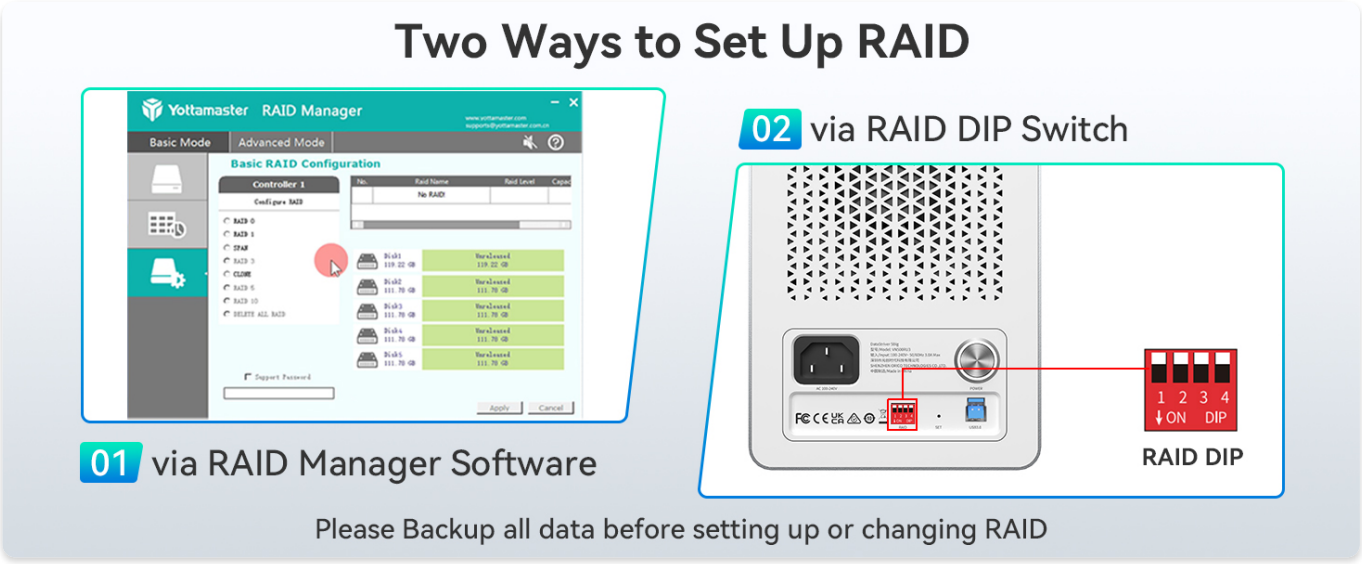

Figure 5: Overview of RAID setup methods.

3.3.1 Setting up RAID via RAID Manager Software

This method provides a graphical interface for configuring RAID modes.

1. Download the Yottamaster RAID Manager Software from the official Yottamaster website's firmware download page. Ensure you download the correct version for your operating system (Windows or Mac).
2. Install and launch the software.
3. Within the software, select your desired RAID mode. The software will display information about the selected RAID level.
4. After setting the RAID mode in the software, access Disk Management (Windows) or Disk Utility (Mac) to format the drives for use.

Figure 6: RAID configuration using Yottamaster RAID Manager Software.

3.3.2 Setting up RAID via RAID DIP Switch

This method uses physical switches on the back of the enclosure to configure RAID modes.

1. Refer to the table below to choose the appropriate DIP switch settings for your desired RAID mode.
2. Adjust the DIP switches on the back of the enclosure according to your selection.
3. Hold the "SET" key, then power on the enclosure. Continue holding the "SET" key for approximately 10 seconds. The LED indicator will light up with a buzzing sound when the setting is complete.
4. Release the "SET" key.
5. Access Disk Management (Windows) or Disk Utility (Mac) to format the hard drive(s).

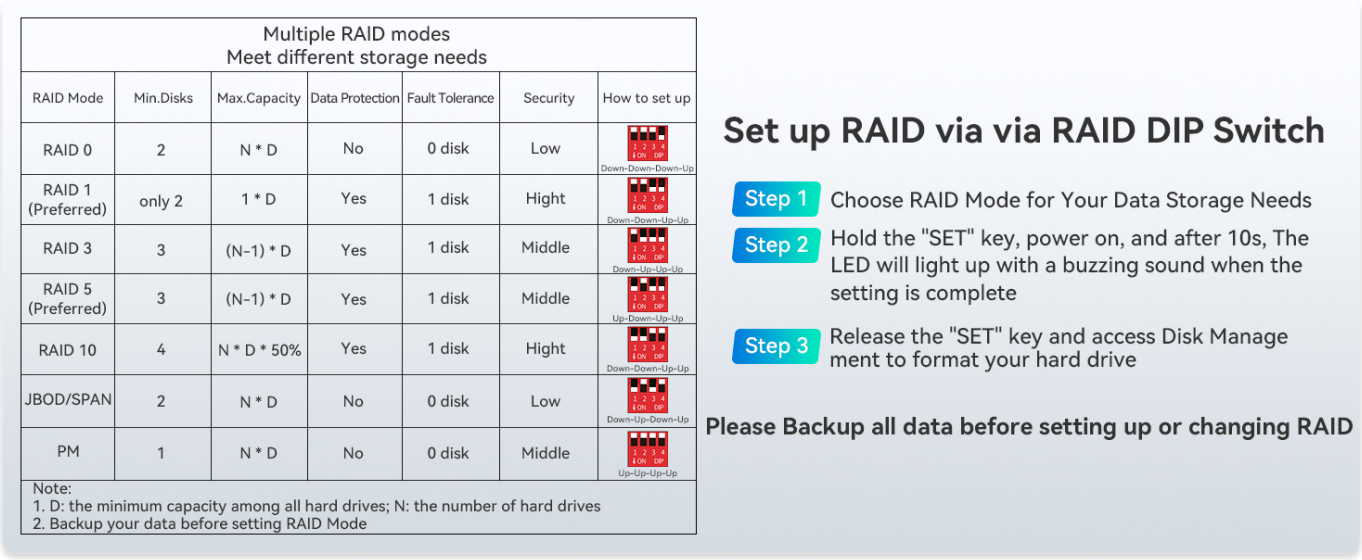

Figure 7: RAID configuration using DIP switches.

RAID Mode Configuration Table:

RAID Mode	Min Disks	Max Capacity	Data Protection	Fault Tolerance	Security	How to set up (DIP Switch)
RAID 0	2	N * D	No	0 disk	Low	Down-Down-Down-Up
RAID 1 (Preferred)	only 2	1 * D	Yes	1 disk	High	Down-Up-Up-Up
RAID 3	3	(N-1) * D	Yes	1 disk	Middle	Up-Down-Up-Up
RAID 5 (Preferred)	3	(N-1) * D	Yes	1 disk	Middle	Up-Up-Down-Up
RAID 10	4	N * D * 50%	Yes	1 disk	High	Down-Down-Up-Up
JBOD/SPAN	2	N * D	No	0 disk	Low	Down-Up-Down-Up
PM (Normal)	1	N * D	No	0 disk	Middle	Up-Up-Up-Up

Note 1: D is the minimum capacity among all hard drives; N is the number of hard drives.
Note 2: Always back up your data before setting RAID Mode.

4. Operating Instructions

4.1 Data Transfer

Once the enclosure is connected and drives are formatted, you can begin transferring data. The USB 3.0 interface supports speeds up to 5Gbps, allowing for rapid file transfers.



Figure 8: High-speed data transfer capabilities.

4.2 Auto-Sleep Function

The enclosure features a 10-minute auto-sleep mode to optimize energy efficiency. If you wish to disable this function, follow these steps:

1. Download the Sleep Time Setting Firmware from the Yottamaster firmware download page.
2. Access the firmware utility, choose "RD Version", and input the required password.

3. Set the Standby Timer to "0" to disable auto-sleep.
4. Confirm the 'PASS' message, then restart the enclosure for the changes to take effect.

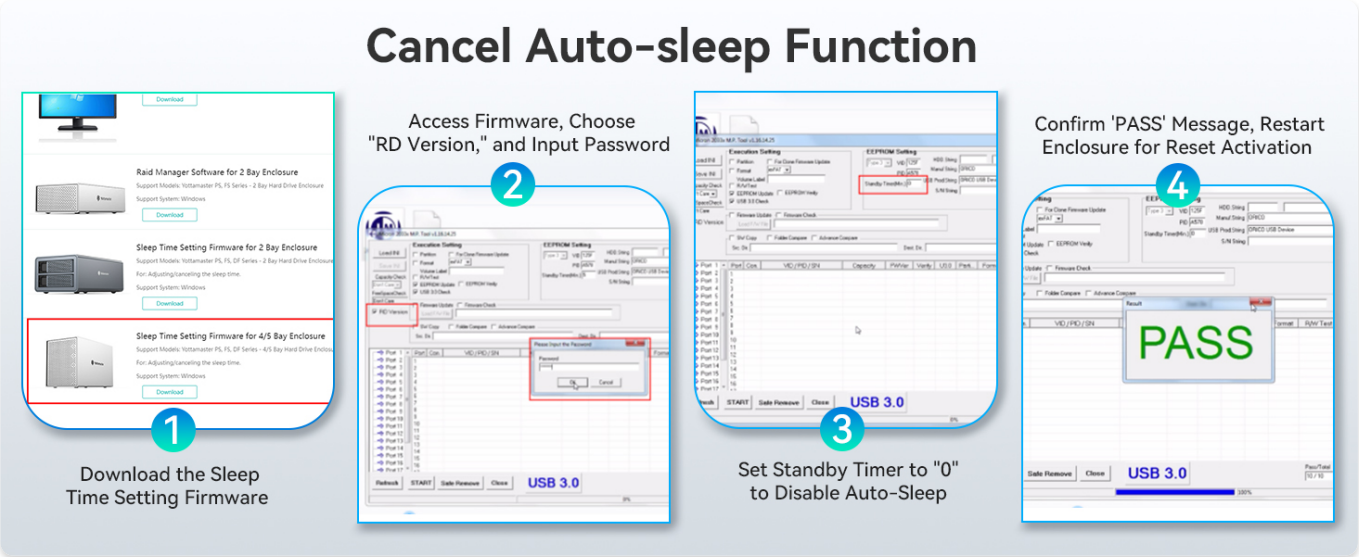

Figure 9: Disabling the auto-sleep function.

4.3 Hot Swappable Convenience

The Yottamaster VN400RU3 supports hot-swapping, allowing you to insert or remove hard disks without powering off the device. This feature enhances convenience for drive management.

4.4 Auto Power-On After Power Loss

In the event of an unexpected power outage, the device is designed to automatically restart once power is restored, ensuring continuous operation and data accessibility.

5. Maintenance

5.1 Heat Dissipation

The enclosure is designed with an aluminum alloy casing and panel heat dissipation holes, complemented by an 80mm cooling fan, to ensure effective heat dissipation and air convection. This keeps your drives cool during prolonged use.

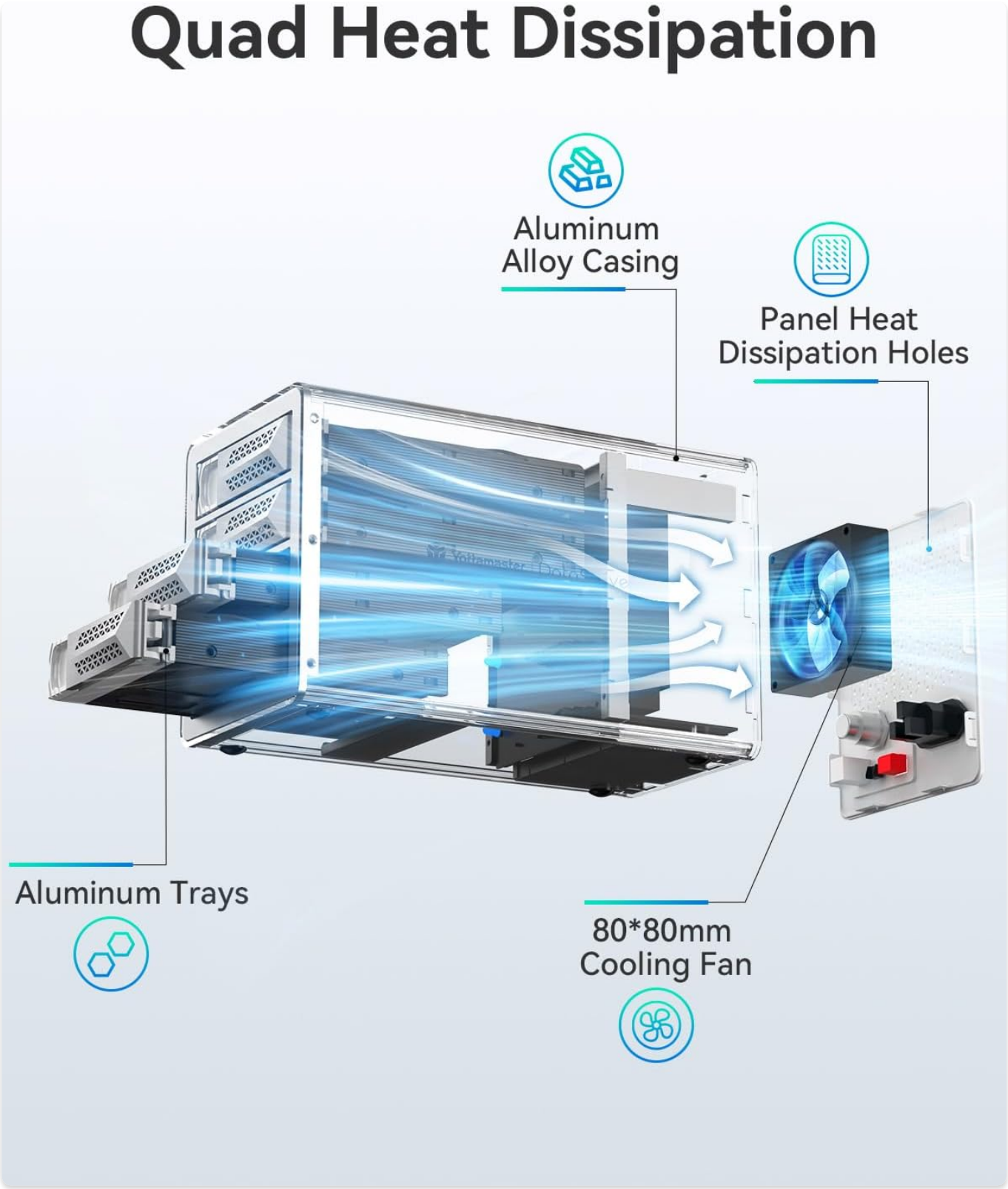

Figure 10: Quad heat dissipation design for optimal cooling.

5.2 Cleaning

To maintain optimal performance, periodically clean the exterior of the enclosure with a soft, dry cloth. Ensure the ventilation holes are free from dust and obstructions. Do not use liquid cleaners or aerosols.

6. Troubleshooting

If you encounter issues with your Yottamaster VN400RU3, please refer to the following common troubleshooting steps:

- **Drives Not Detected:**
  - Ensure drives are properly seated in their bays and secured.
  - Verify power and USB cables are securely connected.
  - Check Disk Management (Windows) or Disk Utility (Mac) to see if drives are recognized but unformatted.
  - Confirm RAID configuration is correctly set via software or DIP switches.
- **Slow Transfer Speeds:**
  - Ensure you are using a USB 3.0 compatible port on your computer.
  - Check the health of your hard drives.
  - Avoid running multiple demanding applications during large file transfers.
- **Enclosure Not Powering On:**
  - Verify the power cord is securely connected to both the enclosure and a working power outlet.
  - Ensure the power button on the back of the enclosure is pressed.
- **Abnormal Drive Indicators (Red Light):**
  - A red indicator light typically signifies a drive abnormality. Check the specific drive for issues.
  - If in a RAID configuration, consult the RAID Manager Software for status or consider replacing the faulty drive.

For further assistance, please contact Yottamaster customer support.

7. Specifications

Feature	Specification
Model Number	VN400RU3-RAID
Compatible Devices	2.5-inch SATA HDD/SSD, 3.5-inch SATA HDD/SSD
Max Number of Supported Devices	4
Memory Storage Capacity	88 TB (4x22TB)
Data Transfer Rate	5 Gigabits Per Second (USB 3.0)
Hardware Interface	USB 3.0 Type B
RAID Support	RAID 0, RAID 1, RAID 3, RAID 5, RAID 10, JBOD, Normal (PM)
Material	Aluminum (Casing), Metal (Trays)
Cooling System	80mm Cooling Fan, Ventilation Holes
Power Supply	Built-in 150W
Item Weight	9.55 pounds
Package Dimensions	13.86 x 12.91 x 9.49 inches
Manufacturer	Yottamaster

8. Warranty and Support

Yottamaster products typically come with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official Yottamaster website for detailed warranty information and terms.
For technical support, product inquiries, or warranty claims, please contact Yottamaster customer service through their official website or the contact information provided in your product packaging.

Official Yottamaster Website: www.yottamaster.com

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