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› ORICO 5 Bay USB 3.0 to SATA External Hard Drive RAID Enclosure User Manual

ORICO 3559RU3

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Model: 3559RU3

Brand: ORICO

1. PRODUCT OVERVIEW

The ORICO 5 Bay USB 3.0 to SATA External Hard Drive RAID Enclosure is designed for expanding storage capacity and enhancing data management for enterprise servers, game development, and security camera systems. It supports up to five 2.5-inch or 3.5-inch SATA HDDs/SSDs, offering a total capacity of up to 80TB (5 x 16TB). This enclosure features high-speed USB 3.0 connectivity, a robust 150W internal power supply, and multiple RAID configurations for data security and performance optimization.



Front view of the ORICO 5 Bay USB 3.0 to SATA External Hard Drive RAID Enclosure.

2. KEY FEATURES

- **High Capacity Storage:** Supports up to 5 x 16TB (80TB total) 2.5/3.5 inch SATA HDD/SSD drives.
- **Super Speed USB 3.0:** Offers data transfer speeds up to 5Gbps, backward compatible with USB 2.0/1.1.
- **Robust Power Supply:** Built-in 150W power supply ensures stable data transmission and supports large capacity drives.
- **Efficient Heat Dissipation:** Unibody aluminum-alloy shell and fan design promote air circulation and heat ventilation for stable operation and extended lifespan.
- **Multiple RAID Modes:** Supports RAID 0/1/3/5/10/JBOD/CLONE/Normal modes to meet various data storage requirements.
- **Universal Compatibility:** Compatible with Windows XP/7/8/8.1/10, VISTA, Linux, and Mac OS 9.1/10.2 or higher.



 **16TB** × **5** =  **80TB** ≈  **80,000 * 1G HD MOVIES**

Illustration of the 80TB total storage capacity with five 16TB drives.



5Gbps

USB 3.0 Interface: The Max.
speed rate to 5Gbps

Depiction of the SuperSpeed USB 3.0 interface, providing up to 5Gbps data transfer rate.

150W BUILT-IN

High-power Power Supply



overcurrent
protection



short-circuit
protection



leakage
protection



overheat
protection



overvoltage
protection



PS: 5-Bay and 4-Bay hard drive enclosure adopts internal power adapter.

The enclosure features a built-in 150W high-power supply for stable operation.

80*80 QUIET FAN, FAST COOLING



high rotation speed



low noise



low power consumption



PS: The size of fan of dual-Bay enclosure is 80*80mm

The 80x80 quiet fan and aluminum alloy body ensure fast and efficient cooling.

3. SETUP GUIDE

3.1 Hard Drive Installation

1. Gently pull out the drive trays from the enclosure.
2. Mount your 2.5-inch or 3.5-inch SATA HDD/SSD onto the tray using the provided screws. Ensure the drive is securely fixed.
3. Slide the loaded tray back into the enclosure until it clicks into place.
4. Repeat for all desired drive bays.

UNIVERSAL COMPATIBLE

Fit for **2.5 /3.5**-inch SATA HDD / SSD hard disk



Windows



Linux



Mac



Screw Fixing
Stable and Shockproof

The enclosure supports both 2.5-inch and 3.5-inch SATA drives, secured by screws for stability.

3.2 Connecting to Computer

1. Connect the power adapter to the enclosure and then to a power outlet.
2. Connect the USB 3.0 data cable from the enclosure to an available USB 3.0 port on your computer.
3. Power on the enclosure using the power switch located at the rear.

3.3 RAID Mode Configuration

The ORICO 5 Bay enclosure supports various RAID modes (0/1/3/5/10/JBOD/CLONE/Normal). RAID configuration is typically done via DIP switches located on the rear of the unit. Refer to the physical user manual for detailed instructions on setting these switches for your desired RAID mode.

Important: Always back up all your data before setting or changing RAID modes, as this process will erase all data on the drives.



Rear view of the enclosure showing the RAID mode DIP switches. Ensure data backup before configuration.

4. OPERATING INSTRUCTIONS

4.1 Disk Formatting and Partitioning

After connecting the enclosure, new hard drives may need to be initialized, formatted, and partitioned before use. The process varies slightly depending on your operating system.

Windows System Disk Formatting

This video demonstrates the steps to format and partition a hard drive within a Windows operating system. It covers accessing Disk Management, initializing the disk, creating a new simple volume, and formatting it with NTFS.

macOS System Disk Formatting

This video illustrates the process of formatting and partitioning a hard drive using Disk Utility in macOS. It shows how to erase a disk and

select the appropriate format (e.g., APFS or Mac OS Extended).

Linux System Disk Formatting

This video guides users through formatting and partitioning a hard drive in a Linux environment, typically using the Disks utility. It demonstrates selecting the disk, formatting it, and choosing the file system type (e.g., NTFS for Windows compatibility or ext4 for Linux).

4.2 10-Minute Auto-Sleep Function

The enclosure features an intelligent 10-minute auto-sleep function. If there is no data activity for 10 minutes, the enclosure will automatically enter sleep mode to prolong the service life of the hard drives and conserve energy. Data access will resume automatically when activity is detected.



The enclosure's 10-minute auto-sleep feature helps extend the lifespan of the installed hard drives.

5. MAINTENANCE

- Keep the enclosure in a well-ventilated area to ensure optimal heat dissipation. Avoid blocking the fan or ventilation holes.
- Regularly check for firmware updates on the official ORICO website to ensure optimal performance and compatibility.
- Clean the exterior of the enclosure with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Avoid exposing the enclosure to extreme temperatures, humidity, or direct sunlight.

6. TROUBLESHOOTING

For common issues and detailed troubleshooting steps, please refer to the official Troubleshooting Guide PDF provided by ORICO:

[Download Troubleshooting Guide \(PDF\)](#)

Common Issues:

- **Drives not recognized:** Ensure drives are properly seated in trays and trays are fully inserted. Check USB cable connection and power supply. For new drives, ensure they are initialized and formatted in your operating system.
- **RAID setup issues:** Verify DIP switch settings match the desired RAID mode. Remember that changing RAID modes will erase data; ensure all data is backed up before attempting. Some users have reported that software utilities for RAID setup may not be compatible with all operating systems (e.g., macOS, Linux), and manual DIP switch configuration is often required.
- **Slow transfer speeds:** Ensure you are connected to a USB 3.0 port on your computer. Check the quality of the USB cable.

7. SPECIFICATIONS

Specification	Value
Brand	ORICO
Model Number	5 Bay USB3.0 RAID (3559RU3)
Memory Storage Capacity	80 TB (Max)
Compatible Devices	2.5/3.5 inch SATA HDD/SSD, Laptop
Max Number of Supported Devices	5
Data Transfer Rate	5 Gigabits Per Second (USB 3.0)
Product Dimensions	10.43 x 5.39 x 7.9 inches
Item Weight	9.78 pounds
Hardware Interface	USB 3.0
Material	Aluminum
Supported Operating Systems	Windows XP/7/8/8.1/10, VISTA, Linux, Mac 9.1/10.2 or higher



Product dimensions and included accessories: USB 3.0 cable and power cable.

8. WARRANTY AND SUPPORT

ORICO provides 36 months of worry-free service and lifetime technical support for this product. For any inquiries or assistance, please contact ORICO customer support through their official channels.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question