

ORICO 9548RU3

ORICO 9548RU3 4-Bay Hard Drive Enclosure User Manual

Model: 9548RU3

Brand: ORICO

INTRODUCTION

The ORICO 9548RU3 is a high-performance 4-bay 3.5" SATA RAID hard drive enclosure designed for expanding storage capacity and managing data efficiently. It supports up to four 6TB drives, offering a total capacity of 24TB, and features a tool-free design for easy installation. This enclosure utilizes a USB 3.0 interface for fast data transfer speeds up to 5Gbps, making it ideal for various data storage needs.

Key features include support for multiple RAID configurations (RAID 0, 1, 3, 5, 10), a robust aluminum construction for effective heat dissipation, and a tray design that reduces HDD shake. It is compatible with various operating systems, including Windows and Mac OS.

PACKAGE CONTENTS

- ORICO 9548RU3 4-Bay Hard Drive Enclosure
- USB 3.0 Data Cable
- Power Adapter
- User Manual (this document)
- HDD Care Lock Key (if applicable)

SETUP AND INSTALLATION

Hardware Installation

The ORICO 9548RU3 features a tool-free design for quick and simple hard drive installation. Follow these steps to install your 3.5-inch SATA hard drives:

1. Ensure the enclosure is powered off and disconnected from your computer.
2. Gently pull the handle of an empty drive bay to slide out the drive tray.
3. Align your 3.5-inch SATA hard drive with the connectors on the tray and slide it in until it clicks securely into place. No screws are required.
4. Carefully slide the loaded drive tray back into the enclosure until it locks.

5. Repeat for all desired hard drives.



Image: Hand inserting a hard drive into the enclosure.



Image: Close-up of hard drive installation.

Connecting to Your Computer

Once the hard drives are installed, connect the enclosure to your computer:

1. Connect one end of the provided USB 3.0 cable to the USB 3.0 port on the ORICO 9548RU3 enclosure.
2. Connect the other end of the USB 3.0 cable to an available USB 3.0 port on your computer. For optimal performance, ensure it is a USB 3.0 port.
3. Connect the power adapter to the enclosure's power input and then plug it into a power outlet.
4. Press the power button on the enclosure to turn it on. The power indicator light should illuminate.



Image: ORICO 9548RU3 enclosure connected to a laptop.

OPERATION AND RAID CONFIGURATION

After connecting the enclosure, your operating system should detect the drives. You may need to initialize and format new hard drives through your computer's Disk Management (Windows) or Disk Utility (Mac) before use.

Understanding RAID Modes

The ORICO 9548RU3 supports various RAID modes to optimize performance or data redundancy based on your needs. It also offers 'Big' and 'Normal' modes for flexible storage management.

- **RAID 0 (Striping):** Combines all drives into one large volume for maximum performance. Data is striped across all drives. This mode offers no fault tolerance; if any single drive fails, all data in the array may be lost.
- **RAID 1 (Mirroring):** Creates a mirrored backup of data from one drive to another. This provides high data safety as data is duplicated, but it reduces usable capacity by half (e.g., two 6TB drives yield 6TB usable space).
- **RAID 3 (Striping with dedicated parity):** Data is striped across drives with one dedicated drive for parity information. This improves performance and provides fault tolerance, allowing recovery from a single drive failure. It's an economical solution for data protection.
- **RAID 5 (Striping with distributed parity):** Similar to RAID 3, but parity information is distributed across all drives. This offers good performance and fault tolerance, allowing recovery from a single drive failure, with more efficient storage utilization than RAID 1.
- **RAID 10 (RAID 1+0):** Requires four drives. This mode combines RAID 0 for performance with RAID 1 for

redundancy. Two drives are mirrored for backup, and the other two combine as a RAID 0 array. It's the key solution for ultra-performance with premium backup.

- **Big (Concatenation):** Combines all drives into one large volume sequentially. It does not improve performance or provide fault tolerance, similar to RAID 0 but without striping.
- **Normal (Individual Disks):** Each drive operates and appears as a separate, individual disk to the operating system. No RAID functionality is applied.

Setting RAID Modes

To configure the RAID mode, refer to the physical controls on the enclosure, typically involving switches or buttons. Ensure the enclosure is powered off before changing RAID settings. After setting the desired mode, power on the enclosure and initialize the drives through your operating system's disk management utility. **Warning: Changing RAID modes will erase all data on the drives. Back up important data before proceeding.**

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ORICO 9548RU3 enclosure:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the enclosure. Avoid liquid cleaners or abrasive materials.
- **Ventilation:** The anodized aluminum case is designed to dissipate heat. Ensure the enclosure is placed in a well-ventilated area, away from direct sunlight or heat sources, to maintain optimal operating temperatures. Do not block the ventilation holes.
- **Proper Shutdown:** Always safely eject or unmount the enclosure from your operating system before powering it off or disconnecting it to prevent data corruption.
- **Drive Health:** Regularly check the health of your hard drives using appropriate disk utility software.

TROUBLESHOOTING

If you encounter issues with your ORICO 9548RU3 enclosure, refer to the following common problems and solutions:

- **Enclosure not detected by computer:**
 - Ensure all cables (USB 3.0, power) are securely connected to both the enclosure and the computer.
 - Try connecting the USB cable to a different USB port on your computer.
 - Verify that the power adapter is functioning correctly and the enclosure is powered on.
 - Test with a different USB 3.0 cable if available.
- **Drives not appearing in operating system:**
 - Check if the hard drives are properly seated in their bays within the enclosure.
 - For new drives, ensure they are initialized, partitioned, and formatted through your operating system's Disk Management (Windows) or Disk Utility (Mac).
 - If using RAID, ensure the RAID mode is correctly configured and the array has been initialized.
- **Slow data transfer speeds:**
 - Ensure the enclosure is connected to a USB 3.0 port on your computer. USB 2.0 ports will result in significantly slower speeds.
 - Update your computer's USB 3.0 host controller drivers. ORICO notes that USB 3.0 has known issues under Windows 8, 8.1, 10, and latest Mac OS versions, which can often be resolved by driver updates.
- **RAID configuration issues:**

- Double-check the physical RAID mode settings on the enclosure.
- Ensure all drives are healthy and compatible before attempting to create a RAID array.
- If necessary, re-initialize the RAID array (note: this will erase all data on the drives).

For further assistance or issues not covered here, please contact ORICO Customer Care Team.

TECHNICAL SPECIFICATIONS

Feature	Value
Model	9548RU3
Brand	ORICO
Compatible Devices	Laptop
Hard Disk Form Factor	3.5 Inches
Number of Bays	4
Maximum Capacity Supported	4x 6TB (24TB total)
Data Transfer Rate	5 Gigabytes Per Second (USB 3.0)
Hardware Interface	USB 2.0, USB 3.0 Type A
RAID Support	RAID 0, 1, 3, 5, 10, Big, Normal
Color	Silver
Material	Aluminum
Hardware Platform	Mac (and Windows compatible)
Date First Available	January 26, 2015

WARRANTY AND SUPPORT

For warranty information, technical support, and service inquiries, please visit the official ORICO website or contact ORICO Customer Care directly. Please retain your purchase receipt as proof of purchase for any warranty claims.

Notice: Hard Disk Drives (HDDs) are not included with this enclosure and must be purchased separately.

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