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› ORICO 2-Bay 3.5-inch HDD RAID Enclosure User Manual

ORICO 9828RU3

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Model: 9828RU3

1. PRODUCT OVERVIEW

The ORICO 9828RU3 is a high-performance 2-bay external hard drive enclosure designed for 3.5-inch SATA HDDs. It features flexible RAID modes (RAID 0, RAID 1, JBOD, and CLEAR) to meet diverse data storage and security needs. Constructed from durable aluminum alloy, it ensures efficient heat dissipation and reliable operation. With USB 3.0 connectivity, it offers high-speed data transfer for large files and high-resolution media.



Figure 1: Front view of the ORICO 2-Bay 3.5-inch HDD RAID Enclosure.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- ORICO 2-Bay 3.5-inch HDD RAID Enclosure (9828RU3)
- USB A-USB B Data Cable
- Screws
- Screwdriver
- User Manual
- Power Cord

3. KEY FEATURES

- **Flexible RAID Mode Management:** Supports RAID 0, RAID 1, JBOD, and CLEAR modes. This allows for dual data backup, enhanced data security, and caters to various individual user requirements. It is recommended to back up data before switching modes.

4 RAIDモード

RAIDモード	最小ディスク数	容量使用率	安全性
RAID 0	 2-5	★★★★	
RAID 1	 2	★★	    
JBOD	 2-5	★★★★★	
Clear	 1-5	★★★★★	  



Figure 2: Overview of supported RAID modes and rear panel controls.

- **Maximum Storage Capacity of 44TB:** Supports 3.5-inch SATA disks. Each disk can hold up to 22TB, providing a total storage space of up to 44TB when fully utilized. This easily meets the storage needs for large-scale engineering projects, high-resolution video footage, and other massive data.

44TB 大容量ストレージ

シングルディスク 最大22TB



1100万枚
のHD写真



3.6K
のHDビデオ



180万件
のHIFI ミュージック



1.6K
のファイル

Figure 3: The enclosure supports up to 44TB of storage, ideal for large files.

- **Excellent Heat Dissipation Performance:** Designed with ventilation holes on both the front and back, and a built-in 50mm silent cooling fan. This design improves internal airflow within the RAID enclosure, while the aluminum alloy body effectively accelerates heat dissipation.

効率的な放熱

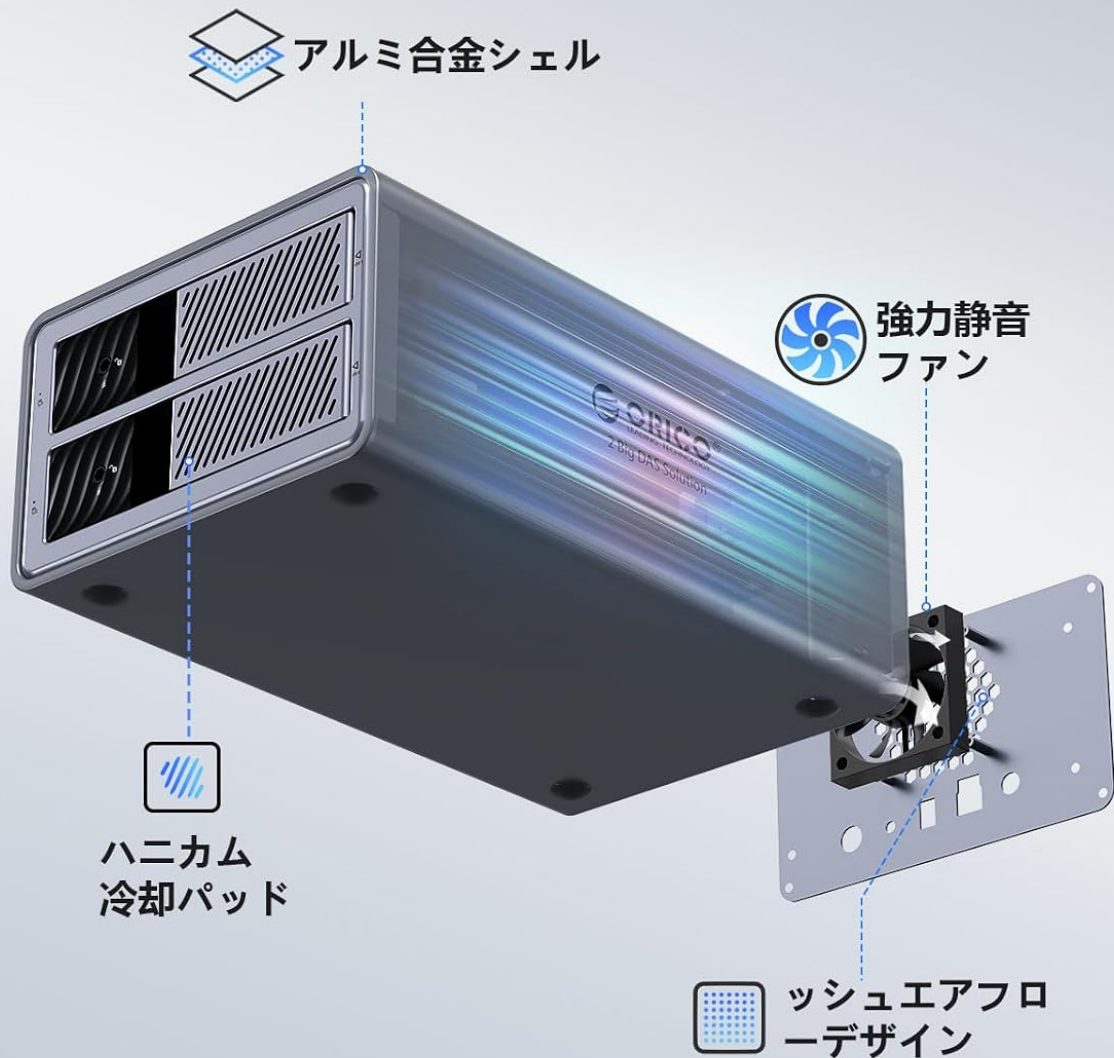


Figure 4: Internal cooling fan and aluminum alloy shell for optimal heat management.

- **High-Speed Data Transfer:** The USB 3.0 interface of this 3.5-inch HDD enclosure is fully compatible with SATA 6Gbps specifications, achieving actual transfer speeds of up to 235MB/s. This allows for easy processing of large file transfers and high-resolution data storage.

5Gbpsの高速転送



Figure 5: High-speed 5Gbps data transfer via USB 3.0.

- **Secure Protection:** The HDD RAID enclosure features a tool-free design for quick disassembly and assembly. It is equipped with an independent safety lock mechanism to effectively prevent accidental ejection or loss of hard disks, ensuring data security.



安全保護

プラグアンドプレイ、3.5インチHDDブに対応



Figure 6: Safety lock design prevents accidental drive removal.

- **Intelligent Sleep Function:** If left unused for 10 minutes, the enclosure automatically enters sleep mode, extending the lifespan of the hard drives.
- **LED Light Design:** Each tray is equipped with an LED indicator light, allowing you to check the operating status at any time.

4. SETUP GUIDE

4.1. Hard Drive Installation

1. Ensure the enclosure is powered off and disconnected from your computer.

2. Unlock the drive bay door using the provided key.
3. Gently pull the drive tray out.
4. Insert your 3.5-inch SATA HDD into the tray, ensuring the SATA connectors align correctly. Secure the HDD to the tray using the provided screws.
5. Slide the tray back into the enclosure until it clicks into place.
6. Lock the drive bay door.
7. Repeat for the second drive if applicable.

4.2. Connecting to Your Computer

1. Connect the power adapter to the enclosure's DC IN port and then to a power outlet.



Figure 7: Connect the 12V4A power adapter to the enclosure.

2. Connect one end of the USB 3.0 data cable to the enclosure's USB 3.0 port and the other end to an available USB 3.0 port on your computer.
3. Press the power button on the enclosure to turn it on. The LED indicators for the installed drives should light up.

5. RAID CONFIGURATION

The ORICO 9828RU3 supports four RAID modes: RAID 0, RAID 1, JBOD, and CLEAR. The RAID mode is set using DIP switches located on the rear of the enclosure. **Always back up your data before changing RAID modes, as this process will erase all data on the drives.**

5.1. Setting RAID Modes

1. Ensure the enclosure is powered off and disconnected from your computer.
2. Locate the DIP switches on the rear panel of the enclosure.
3. Refer to the table below and the diagram on the enclosure to set the switches to the desired RAID mode.
4. After setting the DIP switches, press and hold the 'SET' button for 3-5 seconds until the LED indicators flash, then release. This confirms the new RAID mode.
5. Connect the enclosure to your computer and power it on.
6. Initialize and format the drives through your operating system's Disk Management utility (Windows) or Disk Utility (macOS) before use.

5.2. RAID Mode Descriptions

RAID Mode	Minimum Disks	Function	Usable Capacity	Application Scenario
RAID 0	2	Striping (Performance)	Sum of disk capacities	HD movies, Photoshop, video editing
RAID 1	2	Mirroring (Data Redundancy)	Capacity of smallest disk	Disk clone backup
JBOD	2	Just a Bunch Of Disks (Concatenation)	Sum of disk capacities	Server/database storage
CLEAR	1-2	Independent Disks	Individual disk capacities	Audio-visual collection, security monitoring

Note: RAID combinations are based on the minimum capacity of hard drives. Please use hard drives of the same capacity.

6. OPERATION

6.1. Disk Initialization and Formatting

After installing new hard drives and setting the RAID mode, the drives must be initialized and formatted before they can be used. This process varies slightly depending on your operating system.

Windows:

1. Right-click on the Start button and select 'Disk Management'.
2. You should see the new disk(s) listed as 'Unknown' or 'Not Initialized'. Right-click on the disk and select 'Initialize Disk'.
3. Choose MBR (Master Boot Record) or GPT (GUID Partition Table) as the partition style. For disks larger than 2TB, GPT is recommended. Click 'OK'.
4. Right-click on the 'Unallocated' space on the initialized disk and select 'New Simple Volume'.
5. Follow the New Simple Volume Wizard to assign a drive letter and format the volume (NTFS is recommended).

macOS:

1. Open 'Disk Utility' from Applications > Utilities.
2. Select the ORICO enclosure's disk from the sidebar.
3. Click 'Erase' from the toolbar.
4. Choose a Name, Format (e.g., APFS or Mac OS Extended (Journaled)), and Scheme (GUID Partition Map is recommended). Click 'Erase'.

6.2. Data Transfer

Once initialized and formatted, the enclosure will appear as a regular drive on your computer. You can drag and drop files, copy and paste, or use any file management software to transfer data to and from the enclosure.

6.3. Ejecting the Enclosure

Always safely eject the enclosure before disconnecting it from your computer or powering it off to prevent data corruption.

- **Windows:** Click the 'Safely Remove Hardware and Eject Media' icon in the system tray, then select the ORICO enclosure.
- **macOS:** Drag the drive icon from your desktop to the Trash, or click the Eject button next to the drive in Finder.

7. MAINTENANCE

- Keep the enclosure in a clean, dry environment, away from direct sunlight and extreme temperatures.
- Ensure proper ventilation around the enclosure to allow the cooling fan to operate effectively.
- Clean the exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Regularly back up important data to another location, especially if not using RAID 1.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Enclosure not recognized by computer	Loose cable connection, incorrect RAID mode, uninitialized/unformatted drives, power issue	Check USB and power cables. Verify RAID mode settings. Initialize/format drives in Disk Management/Disk Utility. Ensure power adapter is connected and power button is on.
Slow data transfer speeds	Connected to USB 2.0 port, drive fragmentation, system performance issues	Ensure connection to a USB 3.0 port. Defragment drives (Windows) or verify disk health. Close other demanding applications.
Drives not appearing after RAID mode change	RAID mode not properly set, drives not re-initialized	Ensure DIP switches are correctly set and 'SET' button was pressed. Re-initialize and format the drives after a RAID mode change.
Enclosure is hot	Poor ventilation, prolonged heavy use	Ensure adequate airflow around the enclosure. The aluminum casing and fan are designed for heat dissipation; minor warmth is normal during operation. If excessively hot, power off and allow to cool.

If the problem persists after trying these solutions, please contact ORICO customer support.

9. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	9828RU3
Brand	ORICO
Material	Aluminum Alloy
Color	Space Gray
Drive Bays	2
Compatible Drive Type	3.5-inch SATA HDD
Max Capacity per Drive	22TB
Total Max Capacity	44TB
RAID Modes	RAID 0, RAID 1, JBOD, CLEAR
Interface	USB 3.0 (5Gbps)
Power Supply	12V4A (48W)
Cooling System	Built-in 50mm Silent Fan, Aluminum Alloy Body
Dimensions (L x W x H)	23.3 x 14.3 x 9 cm

Feature	Specification
Weight	2.68 kg

10. COMPATIBILITY

The ORICO 9828RU3 enclosure is compatible with a wide range of operating systems and hard drive types:

10.1. Supported Operating Systems

- Windows (Desktop, Laptop)
- macOS
- Linux
- Android (via OTG for compatible devices)

10.2. Supported 3.5" HDD Types

- Standard HDDs
- Enterprise Disks
- NAS Disks
- Surveillance Disks
- Gaming Disks

完全な互換性



適合デバイス



ノートパソコン



デスクトップ



iPad



OTG電話



プロジェクター



NAS



モニタリング

対応3.5 "HDD



通常ディスク



エンタープライズディスク



NASディスク



監視用ディスク



ゲーミングディスク

Figure 8: Broad compatibility with various operating systems and 3.5-inch HDD types.

11. WARRANTY AND SUPPORT

ORICO products typically come with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official ORICO website for detailed warranty terms and conditions. For technical support, troubleshooting assistance, or warranty claims, please contact ORICO customer service through their official channels.

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Question

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Details

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

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