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- › [ORICO](#) /
- › [ORICO DD28U3 Dual Bay USB 3.0 Hard Drive Docking Station User Manual](#)

ORICO DD28U3

ORICO DD28U3 Dual Bay USB 3.0 Hard Drive Docking Station User Manual

Model: DD28U3

1. INTRODUCTION

The ORICO DD28U3 Dual Bay Hard Drive Docking Station provides a convenient solution for accessing and managing 2.5-inch and 3.5-inch SATA HDDs and SSDs. It supports USB 3.0 for high-speed data transfer and features an independent offline clone function, allowing you to duplicate drives without a computer connection. This manual provides detailed instructions for setup, operation, and maintenance of your device.

2. PRODUCT FEATURES

- **Dual Bay Design:** Supports two 2.5-inch or 3.5-inch SATA I/II/III HDDs/SSDs simultaneously.
- **High Capacity Support:** Compatible with up to 40TB total storage (2 x 20TB drives).
- **USB 3.0 Connectivity:** Offers data transfer speeds up to 5Gbps, supporting UASP and TRIM protocols for enhanced performance.
- **Offline Clone Function:** Duplicate data from a source disk to a target disk without a computer connection.
- **Plug & Play:** Tool-free design for easy installation and hot-swapping of drives.
- **Universal Compatibility:** Works with PCs, laptops, smart TVs, routers, gaming consoles (e.g., PS4), and supports Windows, Mac, Linux, iPad OS (Thunderbolt), and Android operating systems.
- **Power Management:** Features an automatic sleep mode after 10 minutes of inactivity to save energy.
- **Safety Protections:** Built-in overcurrent, short circuit, overheat, static, and leakage protection.
- **Dust-Proof Design:** Unique cover plate design helps protect drive bays from dust.

3. PACKAGE CONTENTS

- ORICO DD28U3 Dual Bay Hard Drive Docking Station
- USB 3.0 Type-A to Type-A Data Cable (approx. 1m/3ft)
- 12V/3A Power Adapter

- User Manual (this document)



This image displays the ORICO Dual Bay Hard Drive Docking Station, featuring two hard drives inserted into its bays, along with the included USB 3.0 data cable and power adapter.

4. SETUP INSTRUCTIONS

1. **Connect Power:** Plug the 12V/3A power adapter into the docking station's power port and then into a wall outlet.
2. **Insert Hard Drives:** Gently insert your 2.5-inch or 3.5-inch SATA HDDs/SSDs into the drive bays. Ensure they are seated firmly.
3. **Connect to Computer (for PC Mode):** Connect the USB 3.0 data cable from the docking station's USB 3.0 port to an available USB 3.0 port on your computer.
4. **Power On:** Press the ON/OFF button on the docking station to power it on. The blue power indicator LED will illuminate.



The docking station is powered by a 12V adapter and features a unique dust-proof design cover plate to protect the drive bays.

5. OPERATING INSTRUCTIONS

5.1. PC Mode (Data Transfer)

1. Ensure the CLONE/PC switch is set to the **PC** position.
2. Connect the docking station to your computer via the USB 3.0 cable.
3. Power on the docking station.
4. Your computer will detect the inserted drives. You can now access, read, write, and manage files on the drives as external storage.

Transfer 1GB Files in Seconds

Speed Reference

Test Platform: ORICO-H110 480GB SSD Hard Drive

USB3.0 5Gbps

USB2.0 480Mbps

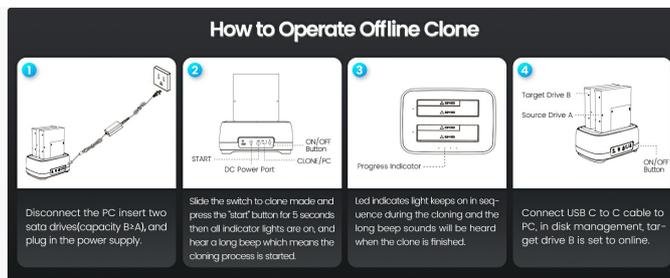


This graphic illustrates the data transfer speeds, showing USB 3.0 at 5Gbps compared to USB 2.0 at 480Mbps. For optimal performance, ensure your device supports the UASP protocol.

5.2. Offline Clone Function

The offline clone function allows you to duplicate a source hard drive to a target hard drive without connecting to a computer. **Important: The target disk must have a capacity greater than or equal to the source disk. All data on the target disk will be overwritten during the cloning process.**

1. **Prepare Drives:** Ensure the docking station is disconnected from your computer. Insert the **Source Disk** into Bay A (labeled 'Source') and the **Target Disk** into Bay B (labeled 'Target').
2. **Set Mode:** Slide the CLONE/PC switch to the **CLONE** position.
3. **Power On:** Plug in the power adapter and press the ON/OFF button to power on the docking station.
4. **Start Cloning:** Press and hold the **START** button for approximately 3 seconds until all indicator lights illuminate. A long beep sound will confirm the cloning process has begun.
5. **Monitor Progress:** The progress indicator LEDs (25%, 50%, 75%, 100%) will light up sequentially as the cloning progresses.
6. **Completion:** Once the cloning process is complete, a long beep sound will be heard, and all progress indicator LEDs will remain lit.
7. **Finalize (Optional):** After cloning, you may connect the docking station to a computer in PC mode. If the target drive is not immediately visible or accessible, you may need to initialize it in Disk Management (Windows) or Disk Utility (Mac) to make the full capacity available, especially if the target drive is larger than the source drive.



A step-by-step guide illustrating the offline cloning process: 1. Disconnect from PC, insert drives, plug in power. 2. Slide switch to clone mode, press START. 3. Monitor progress indicators. 4. Connect to PC to initialize target drive if needed.

6. LED INDICATORS



This diagram identifies the LED indicators and physical ports on the docking station, including the USB interface, power input, ON/OFF button, CLONE/PC mode switch, and START button for cloning.

- **Blue Light ON (Power):** Indicates the device is powered on.
- **Blue Light ON (Data Cable):** Indicates the data cable is connected to the computer for reading.
- **Blue/Red Light Flash (Data Activity):** Indicates data read/write activity on the drives.
- **Progress Indicators (25%, 50%, 75%, 100%):** Illuminate sequentially during offline cloning to show progress. All remain lit upon completion.

7. COMPATIBILITY

The ORICO DD28U3 docking station is designed for broad compatibility:

- **Drive Types:** 2.5-inch and 3.5-inch SATA I/II/III HDDs and SSDs.
- **Devices:** PCs, laptops, smart TVs, smart routers, PS4, PS5, iMac, and other devices with a USB port.
- **Operating Systems:** Windows, Mac OS, Linux, iPad OS (Thunderbolt), Android.

- **Mobile Phone Transmission:** For mobile phone connectivity, ensure your phone supports the OTG function to read hard disk data.



The docking station offers universal compatibility with various devices such as PCs, laptops, smart TVs, routers, and gaming consoles, and supports operating systems including Windows, Mac, Linux, and Android.

8. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the docking station. Avoid liquid cleaners.
- **Dust Protection:** The unique dust-proof design helps protect the drive bays. Periodically inspect and gently clean any accumulated dust.
- **Storage:** When not in use, store the docking station in a cool, dry place away from direct sunlight and extreme temperatures.
- **Auto Sleep Mode:** The device automatically enters sleep mode after 10 minutes of inactivity, which helps conserve energy and prolong drive life.

9. TROUBLESHOOTING

- **Device Not Detected:**
 - Ensure the power adapter is securely connected and the device is powered on.
 - Verify the USB data cable is properly connected to both the docking station and your computer.
 - Try connecting to a different USB port on your computer.
 - Ensure the CLONE/PC switch is set to **PC** mode when connecting to a computer.
- **Hard Drive Not Appearing:**
 - Check if the hard drive is properly seated in the bay.
 - For new drives, they may need to be initialized and formatted in your operating system's Disk Management

(Windows) or Disk Utility (Mac) before they can be used.

- Test the hard drive in another enclosure or directly in a computer to rule out drive failure.

- **Offline Clone Fails or Does Not Start:**

- Ensure the target disk's capacity is greater than or equal to the source disk's capacity.
- Verify the CLONE/PC switch is set to **CLONE** mode.
- Make sure the docking station is disconnected from any computer during the cloning process.
- Press and hold the START button for the required 3 seconds until the beep sounds.

- **Slow Transfer Speeds:**

- Ensure you are connected to a USB 3.0 port on your computer.
- Verify that your computer's USB 3.0 controller and operating system support the UASP protocol.
- The actual speed may vary depending on the hard drive's performance and system configuration.

10. SPECIFICATIONS

- **Model:** DD28U3
- **Brand:** ORICO
- **Material:** Plastic
- **Interface:** USB 3.0 (backward compatible with USB 2.0)
- **Output:** USB 3.0 Type-A
- **Supported Drives:** 2.5-inch / 3.5-inch SATA I/II/III HDD/SSD
- **Max Capacity:** Up to 40TB (2 x 20TB)
- **Power Supply:** 12V/3A Power Adapter
- **Features:** Offline Clone, UASP & TRIM Support, Auto Sleep Mode
- **Dimensions:** Approximately 24.7 x 13.1 x 7.8 cm
- **Weight:** Approximately 560 g
- **Supported OS:** Windows, Mac, Linux, iPad OS, Android

11. SAFETY INFORMATION

- Do not expose the device 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.
- Do not attempt to disassemble or modify the device. This may result in electric shock or damage and will void the warranty.
- Keep the device away from children.
- Ensure proper ventilation around the device during operation.

12. WARRANTY AND SUPPORT

ORICO provides a warranty for this product. For specific warranty terms and conditions, please refer to the warranty

card included with your purchase or visit the official ORICO website. If you encounter any issues or require technical assistance, please contact ORICO customer support through their official channels.



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