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WAVLINK WL-ST334U

WAVLINK USB 3.0 Dual Bay SATA External Hard Drive Docking Station WL-ST334U User Manual

Model: WL-ST334U

1. Introduction

The WAVLINK WL-ST334U Dual Bay HDD/SSD Storage Docking Station provides a convenient solution for quickly accessing 2.5-inch and 3.5-inch SATA I/II/III hard drives and solid-state drives. This device is ideal for data recovery, drive imaging, and testing environments, offering fast access to uninstalled or archived drives.
It supports expanding your computer's storage capacity up to 2 x 16 TB via a USB 3.0 connection, eliminating the need to disassemble your computer. With USB 3.0 SuperSpeed connectivity, data transfer rates can reach up to 5 Gbps, significantly faster than USB 2.0.



Figure 1: WAVLINK WL-ST334U Dual Bay SATA External Hard Drive Docking Station (Front View)
This image displays the front of the WAVLINK docking station, showing the two top-loading drive bays and the central LED indicator ring for power and cloning progress.

2. Package Contents

Please verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 1 x WAVLINK Dual Bay SATA HDD Docking Station (WL-ST334U)
- 1 x 12V 3A Power Adapter
- 1 x USB 3.0 Cable
- 1 x Installation CD
- 1 x User's Manual (this document)
- 1 x Warranty Card



Figure 2: Package Contents
This image shows the WAVLINK docking station, power adapter, USB 3.0 cable, installation CD, and user manual as they appear in the product packaging.

3. Setup

3.1 Connecting the Docking Station

1. Connect the 12V 3A Power Adapter to the DC 12V port on the back of the docking station and plug it into a power outlet.
2. Connect one end of the USB 3.0 cable to the USB 3.0 port on the back of the docking station.
3. Connect the other end of the USB 3.0 cable to an available USB 3.0 port on your computer.
4. Ensure the ON/OFF switch on the back of the docking station is in the OFF position before inserting drives.



Figure 3: Back Panel Connections
This image shows the rear of the docking station, highlighting the USB 3.0 port, DC 12V power input, and the ON/OFF switch.

3.2 Installing Hard Drives

The docking station supports both 2.5-inch and 3.5-inch SATA I/II/III HDDs and SSDs.

1. With the docking station powered off, gently insert your 2.5-inch or 3.5-inch SATA hard drive(s) into the drive bays. Ensure the SATA connector on the drive aligns with the connector in the bay.
2. Push the drive down firmly until it is securely seated. The bays are labeled "Source" and "Target" for cloning operations.
3. Once drives are inserted, switch the ON/OFF button to the ON position. The power indicator LED will illuminate.



Figure 4: Top View of Drive Bays

This image shows the top of the docking station, clearly indicating the two SATA drive bays labeled "Source" and "Target".



Figure 5: Hard Drive Insertion

This image demonstrates a 3.5-inch hard drive inserted into one of the docking station's bays, illustrating how drives are seated.

3.3 Driver Installation

The WAVLINK WL-ST334U docking station features tool-free installation and is plug-and-play compatible with Windows XP/Vista/7/8/8.1/10 (with the latest Service Packs), Mac OS X 10.4.8 (or later), and Linux. No additional drivers are typically required for basic operation.

4. Operating Instructions

4.1 Data Transfer Mode

When connected to a computer via the USB 3.0 cable and powered on, the docking station functions as an external hard

drive enclosure. You can access the installed drives directly from your computer's operating system.

- Ensure the docking station is connected to your computer and powered on.
- The drives will appear as removable storage devices in your operating system.
- You can drag and drop files, copy, paste, and manage data as you would with any internal or external drive.
- The USB 3.0 interface provides data transfer speeds up to 5 Gbps.

4.2 Offline Clone Function

The offline clone function allows you to duplicate a source hard drive to a target hard drive without needing a computer connection. This feature performs a 1:1 copy of mass data.
Important: The target drive must have equal or greater capacity than the source drive. All data on the target drive will be overwritten during the cloning process. Back up any important data on the target drive before proceeding.

1. Ensure the docking station is disconnected from your computer (USB cable removed).
2. Insert the source hard drive into the bay labeled "Source".
3. Insert the target hard drive into the bay labeled "Target".
4. Ensure the docking station is powered on.
5. Press and hold the "Clone" button (often integrated with the power button or a dedicated button, refer to the device's physical layout for exact location) for approximately 3-5 seconds until the clone progress LEDs begin to flash.
6. The LED indicators (25%, 50%, 75%, 100%) will illuminate sequentially to show the cloning progress.
7. Once all LEDs are solid, the cloning process is complete.
8. Power off the docking station before removing the drives.



Figure 6: LED Progress Indicators
This image shows the front of the docking station with its central LED ring, which indicates power status and cloning progress (25%, 50%, 75%, 100%).

5. Maintenance

- Keep the docking station clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.
- Do not attempt to disassemble or repair the device yourself. This may void the warranty.
- Ensure proper ventilation around the device during operation.

6. Troubleshooting

Problem	Possible Cause	Solution
Device not recognized by computer	• Loose USB cable connection • Power adapter not connected or faulty • Drive not properly seated • USB port issue on computer	• Ensure USB 3.0 cable is securely connected to both the docking station and the computer. • Verify the power adapter is correctly connected and the docking station is powered on. • Re-insert the hard drive(s) firmly into the bays. • Try connecting to a different USB port on your computer. • Restart your computer.
Slow data transfer speed	• Connected to a USB 2.0 port • Drive performance limitations • Cable quality	• Ensure the docking station is connected to a USB 3.0 port on your computer. • Check the specifications of your hard drive(s) for their maximum transfer speeds. • Use the provided USB 3.0 cable or a certified high-quality USB 3.0 cable.
Offline clone fails or does not start	• Target drive capacity is smaller than source drive • Drives not properly seated • USB cable still connected to computer • Clone button not held long enough	• Ensure the target drive has equal or greater capacity than the source drive. • Re-insert both source and target drives firmly. • Disconnect the USB cable from the computer before initiating an offline clone. • Press and hold the clone button for 3-5 seconds until LEDs flash.
Power LED not illuminating	• Power adapter not connected or faulty • ON/OFF switch in OFF position	• Check power adapter connection to both the docking station and the wall outlet. • Ensure the ON/OFF switch on the back of the docking station is in the ON position. • Try a different power outlet.

7. Specifications

Feature	Detail
Model Number	WL-ST334U
Brand	WAVLINK

Feature	Detail
Compatible Drive Types	2.5-inch & 3.5-inch SATA I/II/III HDD/SSD
Max Storage Capacity	Up to 2 x 16 TB (Total 32 TB)
Hardware Interface	USB 3.0 (backward compatible with USB 2.0)
Data Transfer Rate	Up to 5 Gbps (USB 3.0 SuperSpeed)
Functions	Data Transfer, Offline Clone (1:1 copy)
System Support	Windows XP/Vista/7/8/8.1/10, Mac OS X 10.4.8+, Linux
Material	Acrylonitrile Butadiene Styrene (ABS)
Color	Black
Product Dimensions	5.51 x 4.72 x 2.76 inches (14 x 12 x 7 cm)
Item Weight	1.94 pounds (0.88 kg)



7cm

14cm



12cm

Figure 7: Product Dimensions

This image illustrates the physical dimensions of the WAVLINK docking station, showing its height, width, and depth.

8. Warranty and Support

WAVLINK provides the following for the WL-ST334U docking station:

- **Warranty:** 18 months replacement warranty.
- **Money-Back Guarantee:** 45 days money return guarantee.
- **Customer Service:** 7 x 24 hours email service.

For further assistance or to claim warranty, please refer to the contact information provided on the Warranty Card included in your package or visit the official WAVLINK website.
You can also visit the WAVLINK Store on Amazon for more product information and support resources.

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