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WAVLINK ST348

WAVLINK NVMe M.2 Duplicator and Enclosure User Manual (Model ST348)

Model: ST348

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your WAVLINK NVMe M.2 Duplicator and Enclosure, Model ST348. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent data loss.



Image: The WAVLINK NVMe M.2 Duplicator and Enclosure, shown with its power adapter and a USB-C to USB-C/USB-A cable. The device is designed for dual M.2 SSDs and features a sleek, metallic finish.

Package Contents

- 1 x WAVLINK USB-C 20Gbps Dual M.2 SSD Enclosure (with Offline Clone Function)
- 1 x DC 5V/4A Power Adapter
- 1 x USB-C to USB-C / USB-A Cable
- 2 x Silicone Buckles
- 2 x Thermal Conductive Silicone Pads

Specifications

Brand	WAVLINK
Model Number	NVMe + NVMe (ST348)
Interface	USB-C 20Gbps (USB 3.2 Gen 2x2)
Supported SSD Types	NVMe and AHCI M.2 SSDs (M-Key and B+M Key interfaces)
Supported SSD Sizes	2230, 2242, 2260, 2280
Max Capacity	Up to 8TB (4TB x 2 SSDs)
Data Transfer Rate	Up to 20Gbps (Read: 1631MB/s, Write: 1267MB/s)
Offline Clone	One-click offline clone from Source to Target disk (Target disk capacity must be equal to or greater than Source disk capacity). OS cloning not supported.
Power Supply	DC 5V/4A
Dimensions	16.5 x 11.4 x 7.9 cm
Weight	480 g

Note: SATA or mSATA interface SSDs are not supported by this model (ST348).

Setup and Installation

Follow these steps to install your M.2 SSDs into the enclosure:

1. **Open the Enclosure:** Slide open the metal cover of the enclosure.
2. **Insert SSDs:** Carefully insert your NVMe M.2 SSDs into the designated slots. Ensure they are properly seated.
3. **Secure SSDs:** Use the provided silicone buckles to secure the SSDs in place. Apply the thermal conductive silicone pads onto the SSDs for optimal heat dissipation.
4. **Close the Enclosure:** Slide the cover back into place until it clicks securely.
5. **Connect Power:** Connect the DC 5V/4A power adapter to the enclosure and plug it into a power outlet.
6. **Connect to Device:** Connect the enclosure to your computer, smartphone, or tablet using the provided USB-C to USB-C/USB-A cable. The device is plug-and-play, requiring no driver installation.



Image: A visual guide demonstrating the easy, tool-free installation process for M.2 SSDs into the WAVLINK enclosure, including opening the cover, inserting SSDs, securing them, and connecting power.

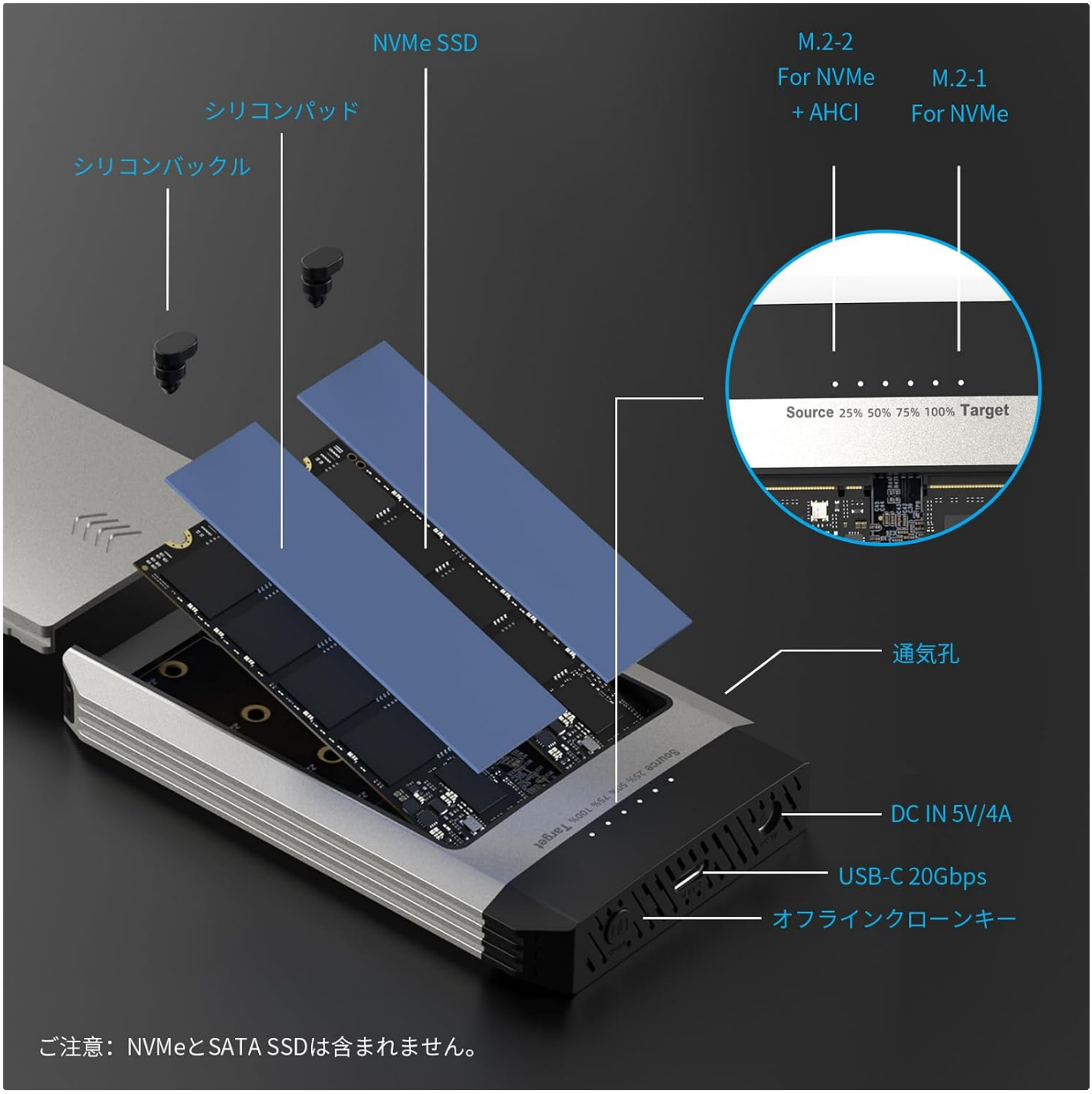


Image: An exploded view of the WAVLINK enclosure, highlighting the NVMe SSD slots, silicone pads, silicone buckles, ventilation holes, DC 5V/4A power input, USB-C 20Gbps port, and the offline clone key.

Operating Instructions

Data Transfer Mode (Connected to Computer)

When connected to a computer, the enclosure functions as an external dual M.2 SSD drive, allowing for high-speed data transfer. It supports USB 3.2 Gen 2x2 with speeds up to 20Gbps.

- Connect the enclosure to your computer using the USB-C cable.
- Your computer will recognize the installed SSDs as external storage devices.
- You can now transfer files, photos, videos, and games at high speeds (up to 1631MB/s read, 1267MB/s write).



Image: The WAVLINK enclosure connected to a laptop, illustrating its capability for 20Gbps high-speed data transfer, with read and write speeds indicated.



Image: The WAVLINK enclosure connected to a laptop, showcasing its ability to expand storage up to 8TB (2 x 4TB SSDs).

One-Click Offline Clone Function

The WAVLINK enclosure supports one-click offline cloning from a source disk to a target disk without needing a computer connection.

Important Notes for Offline Cloning:

- **Disconnect from Computer:** Before initiating the clone, ensure the device is disconnected from any computer.
- **Target Disk Capacity:** The target disk's capacity must be equal to or greater than the source disk's capacity. If capacities are identical, minor differences in actual capacity might cause cloning to fail.
- **OS Cloning:** Cloning hard disks with an installed operating system is **not supported**.
- **SSD Condition:** Ensure the SSDs do not have excessive bad sectors. Use a utility like DiskGenius to check for bad sectors on your SSDs.

Cloning Procedure:

1. Insert the source M.2 SSD into the "Source" slot and the target M.2 SSD into the "Target" slot.

2. Ensure the enclosure is powered on via the DC 5V/4A adapter but **not connected to any computer**.
3. Press and hold the "Clone" button until the LED indicators start flashing.
4. Release the button, then press the "Clone" button again briefly to start the cloning process.
5. The LED indicators (25%, 50%, 75%, 100%) will illuminate sequentially to show the cloning progress.
6. Once all LEDs are solid, the cloning process is complete.



Image: The WAVLINK enclosure in offline cloning mode, showing two SSDs inserted and a clear warning to disconnect from the computer before starting the clone process.

Maintenance

To ensure the longevity and optimal performance of your WAVLINK NVMe M.2 Duplicator and Enclosure, please follow these maintenance guidelines:

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.

- Ensure proper ventilation around the device, especially during prolonged operation or cloning, to prevent overheating. The included thermal pads assist with heat dissipation.
- Handle the device and SSDs with care to prevent physical damage.
- When not in use, store the device in a cool, dry place.

Troubleshooting

Offline Clone Fails or Does Not Start

- **Check SSD Condition:** Ensure that the SSDs do not have excessive bad sectors. Use a utility like DiskGenius to check for bad sectors on your SSDs.
- **Disconnect from PC:** Verify that the WAVLINK device is not connected to a computer. Cloning will not proceed if it is connected.
- **Source vs. Target Capacity:** Confirm that the capacity of the source disk is smaller than or equal to the capacity of the target disk. If the source disk is larger, the clone will fail.
- **Cloning Button Sequence:** Press and hold the clone button until the LEDs start flashing, then release and press the clone button again briefly to initiate.
- **Contact Support:** If the issue persists, please contact our customer service for assistance.

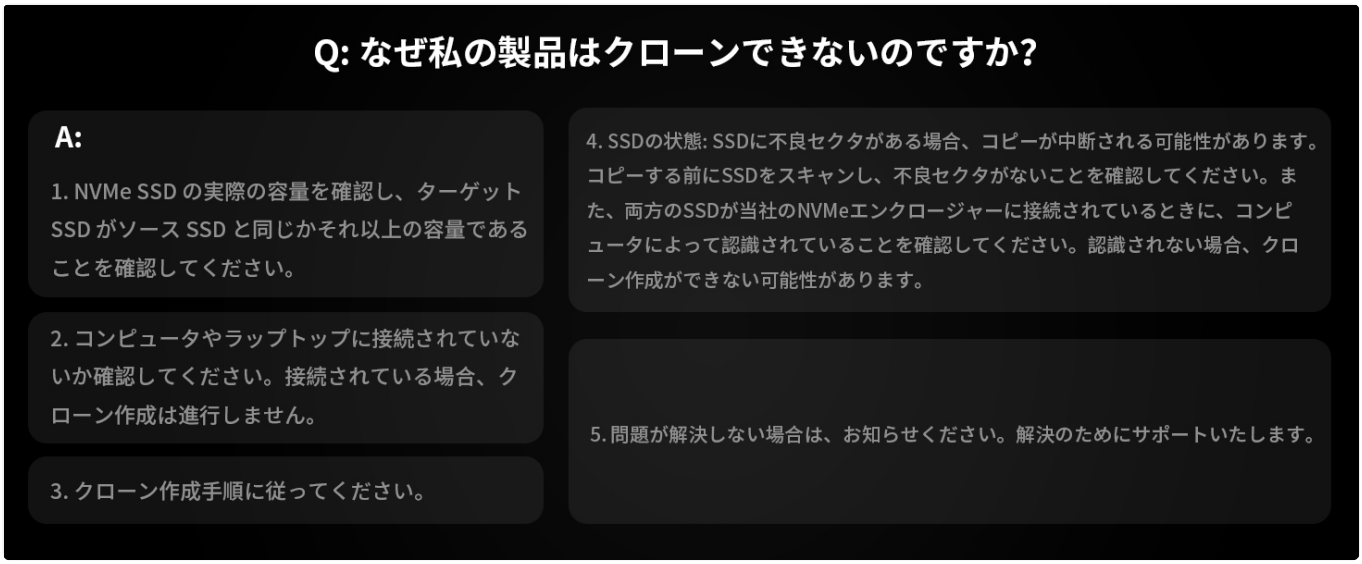


Image: A Q&A section detailing common reasons why cloning might fail and providing solutions, such as checking SSD health, ensuring disconnection from a PC, and verifying disk capacities.

Unstable SSD Recognition When Connected to PC

- **Check Cables and Ports:** Verify all connection cables and ports are secure and not loose. Try using different USB ports or cables.
- **Ensure Sufficient Power:** Confirm that the connected device provides sufficient power. For external hard drive cases, especially with SSDs, independent power support is recommended. If possible, connect to a desktop's USB 3.0 port rather than a laptop's low-power USB port.

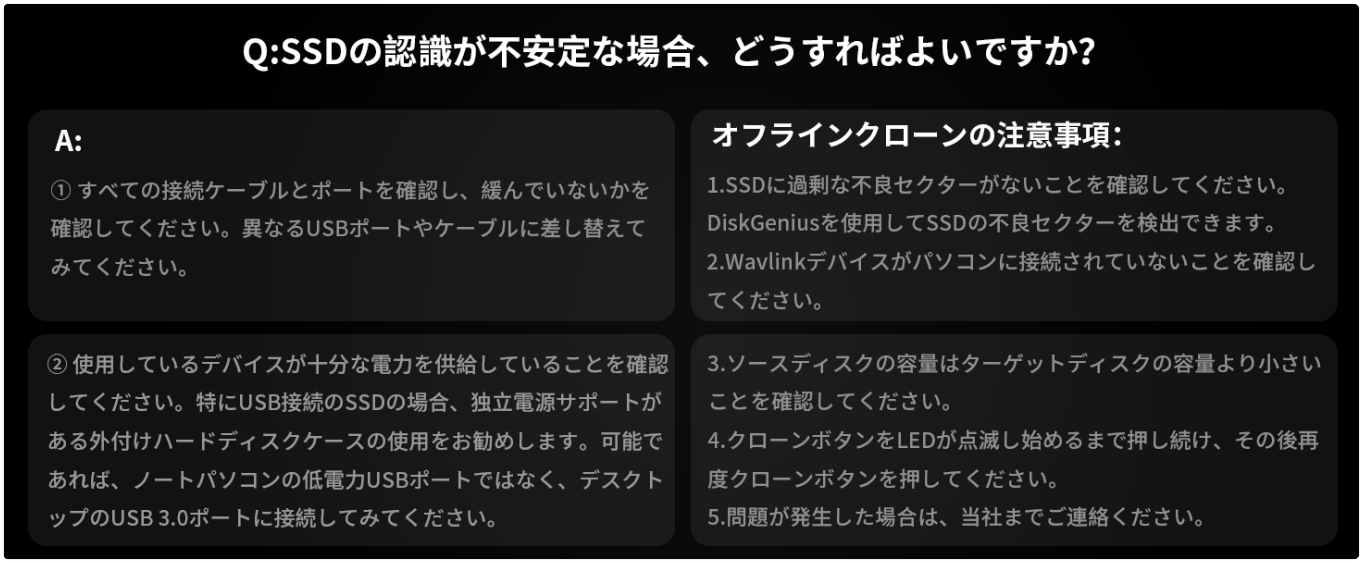


Image: A Q&A section offering solutions for unstable SSD recognition, including checking connections and ensuring adequate power supply.

SSD Compatibility

- The ST348 model supports M-Key and B+M Key PCIe NVMe SSDs of sizes 2230, 2242, 2260, and 2280.
- It is compatible with AHCI SSDs (as source disks).
- **SATA or mSATA interface SSDs are NOT supported by this model (ST348).**



Image: A visual representation of the WAVLINK enclosure supporting various M.2 SSD sizes (2230, 2242, 2260, 2280) and confirming compatibility with NVMe and AHCI SSDs, while explicitly stating no support for SATA SSDs.

Warranty and Support

WAVLINK is committed to protecting customer rights. If you encounter any issues during installation or use, please contact our customer service. We will do our best to assist you.
For further support and product information, please visit the official WAVLINK website or contact your local distributor.

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