

MAIWO mSATA Enclosure

MAIWO mSATA to USB 3.0 Adapter Enclosure User Manual

Model: mSATA Enclosure (K1642S)

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1. INTRODUCTION

The MAIWO mSATA to USB 3.0 Adapter Enclosure provides a convenient solution for converting an mSATA Solid State Drive (SSD) into a portable USB 3.0 storage device. This enclosure supports mSATA SSDs of various sizes and offers high-speed data transfer, making it ideal for data backup, migration, or expanding storage capacity. Its durable aluminum alloy construction ensures efficient heat dissipation and protection for your mSATA SSD.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- 1x External mSATA Drive Enclosure
- 1x Screwdriver
- Screws (for securing mSATA SSD)
- 1x User Manual (this document)
- *Note: mSATA Drive is not included.*

3. KEY FEATURES

- **Wide Compatibility:** Supports mSATA Solid State Drives in sizes 30x30mm and 51x30mm.
- **High Capacity Support:** Capable of supporting mSATA SSDs up to 2TB capacity.
- **Fast Data Transfer:** Equipped with an ASM1153E chipset, providing USB 3.0 (5Gbps) transmission speed for rapid read and write operations. Backward compatible with USB 2.0 and USB 1.1.
- **Efficient Heat Dissipation:** Constructed from durable aluminum alloy with cooling vents on the bottom to ensure stable and safe data transfer by preventing overheating.
- **Cable-Free Design:** Features a direct USB 3.0 plug, eliminating the need for an external data cable. Supports plug-and-play functionality.

- **Broad OS Support:** Compatible with Mac OS, Windows, Linux, and various devices including laptops, desktops, TVs, phones, routers, PS4/PS5, etc.
- **Indicator LED:** Includes a blue LED indicator for operational status.
- **Protective Design:** Features an aluminum alloy case and an ABS plastic dust cap for enhanced durability and protection.



Image: High-Performance ASM1153E Chipset. This image highlights the ASM1153E chipset, which enables rapid and stable data transfer for mSATA drives.

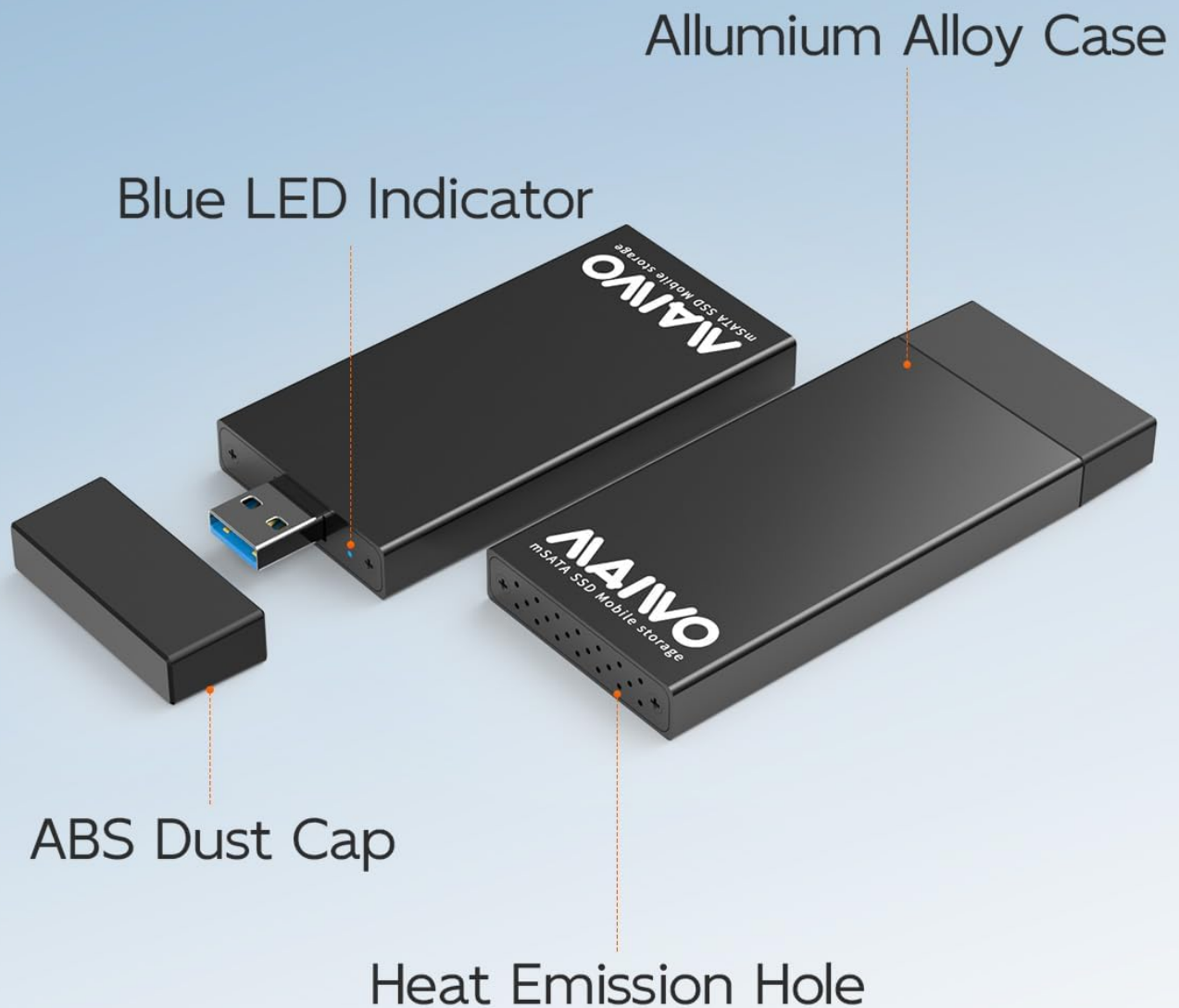


Image: MAIWO mSATA Enclosure Components. This image shows the aluminum alloy case, blue LED indicator, ABS dust cap, and heat emission holes, illustrating the product's design for durability and heat management.

4. SETUP INSTRUCTIONS

Follow these steps to install your mSATA SSD into the MAIWO enclosure:

1. Step 1: Remove the Baffle Plate and PCB Board.

Gently slide off the baffle plate from the enclosure. Then, carefully pull out the internal PCB (Printed Circuit Board) board from the aluminum casing.

2. Step 2: Insert and Secure the mSATA Drive.

Align your mSATA SSD with the mSATA slot on the PCB board and insert it firmly. For 30x30mm mSATA drives, use the provided screws and screwdriver to secure it in place. For 50x30mm mSATA drives, the spring buckle type design allows for tool-free installation; simply ensure it clicks into position.



Image: mSATA SSD Installation Guide. This image illustrates how to install both 30x30mm (screw retainer) and 50x30mm (tool-free spring buckle) mSATA SSDs onto the PCB board.

3. Step 3: Reassemble the Enclosure.

Once the mSATA SSD is securely installed on the PCB board, carefully slide the PCB board back into the aluminum alloy case. Then, reattach the baffle plate to close the enclosure.



Image: Step-by-step mSATA Enclosure Assembly. This visual guide demonstrates the three main steps for assembling the mSATA enclosure with an SSD.

Important Note for New Disks: If you are using a brand new mSATA SSD, it may not be immediately recognized by your computer. You will need to initialize and format the disk. On Windows, right-click "This PC" or "My Computer," select "Manage," then "Disk Management." Find your new disk, right-click it, select "Initialize Disk," and then "Create a New Simple Volume" to format it.

Setup Video Guide

Your browser does not support the video tag.

Video: MAIWO mSATA to USB 3.0 Adapter Enclosure Setup. This video demonstrates the physical installation process of an mSATA SSD into the MAIWO enclosure and its connection to a computer.

5. OPERATING INSTRUCTIONS

The MAIWO mSATA to USB 3.0 Adapter Enclosure is designed for simple plug-and-play operation.

1. **Connect to Device:** Insert the USB 3.0 connector of the enclosure directly into an available USB port on your computer or compatible device (e.g., laptop, desktop, TV, game console).
2. **Device Recognition:** The blue LED indicator on the enclosure will illuminate, signifying power and activity. Your operating system (Windows, Mac OS, Linux) should automatically detect the new storage device.
3. **Accessing Data:** Once recognized, the mSATA SSD will appear as an external drive. You can now drag and drop files, perform backups, or run applications directly from the drive.
4. **Safe Removal:** Always safely eject the device from your operating system before physically disconnecting it to prevent data corruption.

5Gbps

USB 3.0 Output Interface



Image: USB 3.0 Output Interface. This image shows the enclosure connected to a laptop via its integrated USB 3.0 interface, demonstrating its cable-free design.

Support mSATA size 30*30 , 50*30



Image: mSATA Enclosure OS Compatibility. This image highlights the enclosure's compatibility with various operating systems including Windows, Mac OS, and Linux, and support for both 30x30mm and 50x30mm mSATA SSDs.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your MAIWO mSATA to USB 3.0 Adapter Enclosure.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the enclosure. Avoid using liquid cleaners or solvents, as they may damage the finish or internal components.
- **Heat Management:** The aluminum alloy case and heat emission holes are designed for efficient heat dissipation. Ensure these vents are not obstructed during operation to maintain optimal temperature.
- **Dust Protection:** Utilize the ABS plastic dust cap when the enclosure is not in use to protect the USB connector from dust and debris.
- **Storage:** Store the enclosure in a cool, dry place away from direct sunlight and extreme temperatures when not in use.

7. TROUBLESHOOTING

If you encounter issues with your MAIWO mSATA to USB 3.0 Adapter Enclosure, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Enclosure not detected by computer.	Loose connection.	Ensure the enclosure is fully inserted into the USB port.
	New mSATA SSD not initialized/formatted.	For new SSDs, initialize and format it via Disk Management (Windows) or Disk Utility (Mac OS).
	Faulty USB port.	Try a different USB port on your computer.
	Incompatible mSATA SSD.	Verify your mSATA SSD is compatible (30x30mm or 51x30mm).
Slow data transfer speeds.	Connected to a USB 2.0 port.	Connect to a USB 3.0 (blue port) or higher port for optimal speed.
	Operating system or driver issues.	Ensure your operating system has the latest USB drivers.
	SSD performance limitations.	Check the specifications of your mSATA SSD for its maximum transfer rates.
Enclosure becomes hot during use.	Normal operation for high-speed data transfer.	The aluminum casing is designed to dissipate heat. Some warmth is normal.
	Obstructed heat vents.	Ensure the heat emission holes are not covered.
		Avoid prolonged heavy data transfers if overheating is excessive.
Data corruption or disconnection.	Improper ejection.	Always safely eject the device before unplugging.
	Loose mSATA SSD connection inside.	Reopen the enclosure and ensure the mSATA SSD is firmly seated and secured.

8. SPECIFICATIONS

Attribute	Detail
Brand	MAIWO
Model Number	mSATA Enclosure (K1642S)
Hardware Interface	USB 3.0 Type A
Compatible SSDs	mSATA Solid State Drives (30x30mm, 51x30mm)
Max Capacity	2 TB
Data Transfer Rate	5 Gigabits Per Second (USB 3.0)
Chipset	ASM1153E
Enclosure Material	Aluminum Alloy
Color	Black
Product Dimensions (L x W x H)	5"L x 2.95"W x 2.24"H
Compatible Devices	Desktop, Laptop, Macbook/Notebook/Xbox, PS5/PS4/PS3/TV/Router, Tablet
Supported OS	Mac OS, Windows, Linux

9. WARRANTY & SUPPORT

Warranty Information

The MAIWO mSATA to USB 3.0 Adapter Enclosure comes with a**One Year Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact MAIWO customer support through the retailer where the product was purchased or visit the official MAIWO website for contact information.

Before contacting support, please review the troubleshooting section of this manual and ensure your operating system and drivers are up to date.

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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