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MAIWO K1689PL

MAIWO M.2 NVMe SSD Enclosure (Model K1689PL) User Manual

Comprehensive Guide for Setup, Operation, and Maintenance

1. Introduction

Thank you for choosing the MAIWO M.2 NVMe SSD Enclosure. This device allows you to convert an M.2 NVMe SSD into a portable external storage solution, offering high-speed data transfer and tool-free installation. This manual provides essential information for the proper use and maintenance of your enclosure.

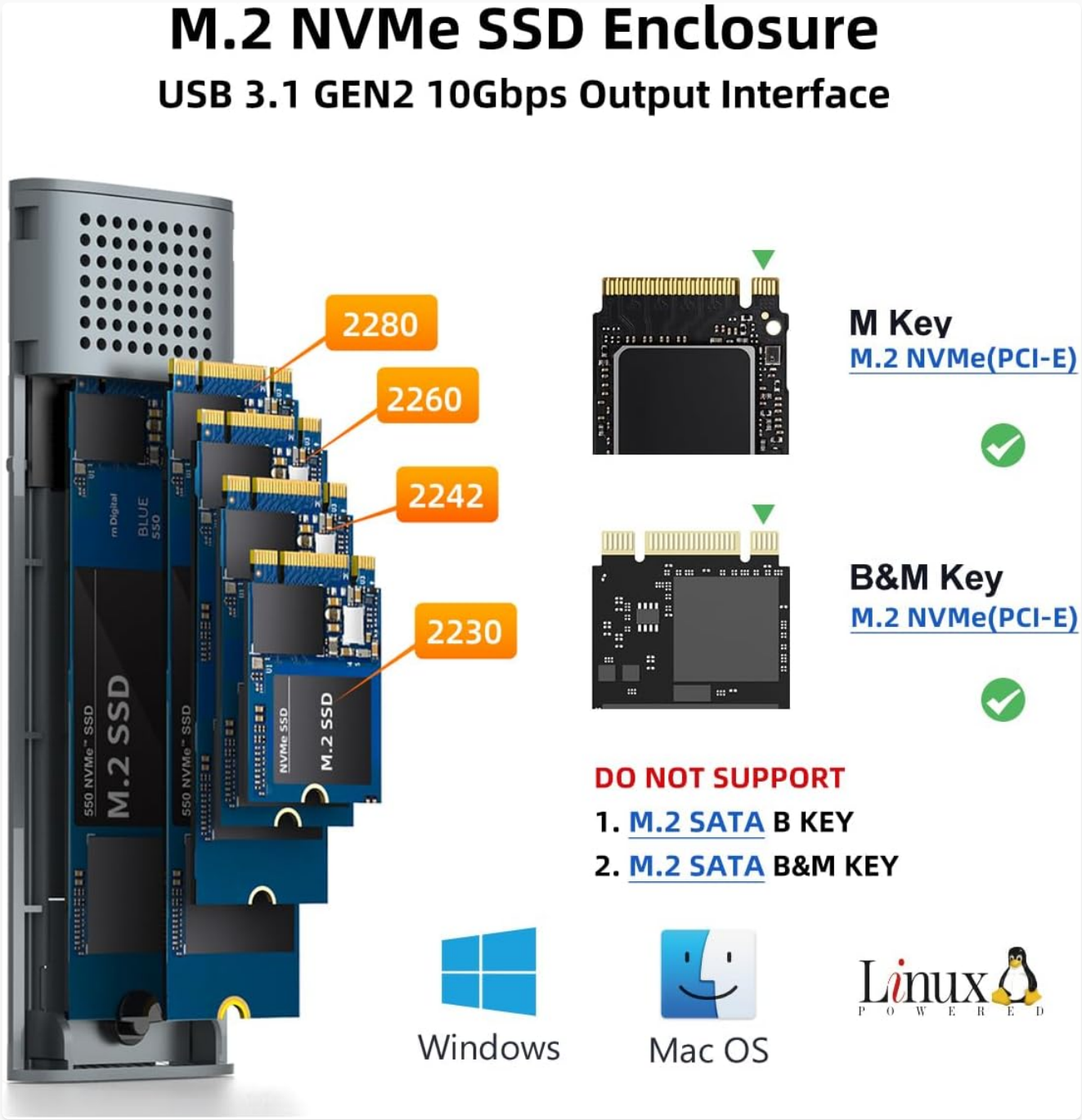


Image 1.1: The MAIWO M.2 NVMe SSD Enclosure, a compact and portable device for external storage.

2. Package Contents

Please verify that all items are present in your package:

- 1x M.2 NVMe SSD Enclosure
- 1x Type-C to Type-C Data Cable with Plastic Clip (5.2 inches / 13 cm)
- 1x Silicone Thermal Pad
- 1x Aluminum Thermal Sheet
- 3x Rubber Screws (one for installation, two spares)
- 1x Lanyard
- 1x User Manual (this document)



Image 2.1: Visual representation of the package contents and the enclosure's dimensions.

3. Compatibility

This enclosure is designed for specific M.2 NVMe SSD types and sizes. Please ensure your SSD meets the following criteria:

- **Supported SSD Type:** M.2 NVMe M-Key SSDs and M.2 NVMe B&M Key SSDs (PCIe based).
- **Supported SSD Sizes:** 2230, 2242, 2260, and 2280mm M.2 NVMe SSDs.
- **Operating Systems:** Compatible with Windows, macOS, Linux, iOS, and Android.
- **Maximum Capacity:** Supports up to 8TB M.2 NVMe SSDs.

DO NOT SUPPORT:

- M.2 SATA B-Key SSDs
- M.2 SATA B&M Key SSDs
- Any SSDs with pre-installed heat sinks that prevent proper fitment.



Image 3.1: Illustrates supported M.2 NVMe SSD types (M-Key, B&M Key NVMe) and compatible operating systems (Windows, Mac OS, Linux).



Image 3.2: Detailed view of supported M.2 NVMe key types and incompatible M.2 SATA key types.



Image 3.3: Visual guide to the compatible M.2 NVMe SSD lengths (2230, 2242, 2260, 2280).

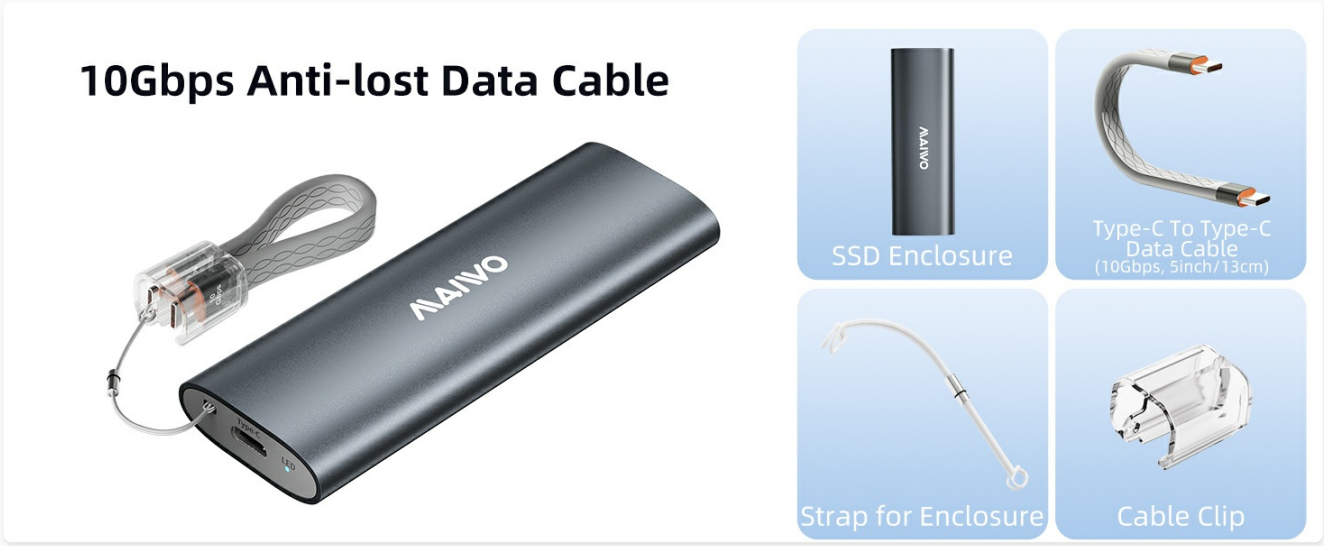


Image 3.4: Overview of compatible devices (Macbook, iPad, Xbox, PS4, TV) and systems (Windows, Mac OS, iOS, Linux, Android).

4. Setup Guide (Tool-Free Installation)

The MAIWO M.2 NVMe SSD Enclosure features a tool-free design for quick and easy SSD installation.

1. **Unscrew the Lanyard (Optional):** If the lanyard is attached, unscrew it from the enclosure to allow the internal tray to slide out completely.
2. **Press and Slide:** Gently press the button on the side of the enclosure and slide the internal tray out.
3. **Insert M.2 NVMe SSD:** Align your M.2 NVMe SSD with the slot on the internal tray and insert it firmly. Secure the SSD with one of the provided rubber screws by pushing it into the designated hole at the end of the SSD.
4. **Apply Thermal Pads:** Place the silicone thermal pad onto the SSD, then place the aluminum thermal sheet on top of the silicone pad. This aids in heat dissipation.
5. **Slide Back into Enclosure:** Carefully slide the internal tray, with the SSD installed, back into the aluminum shell until it clicks into place.
6. **Connect to Device:** Use the included Type-C to Type-C data cable to connect the enclosure to your computer or compatible device.



Image 4.1: Demonstrates the tool-free 'Press and Pull' mechanism for installing an M.2 NVMe SSD.



Image 4.2: Visual steps for unscrewing the lanyard, pressing the button, inserting the SSD, and connecting the enclosure.

Installation Video Guide

Your browser does not support the video tag.

Video 4.1: A short demonstration by MAIWO STORE on how to install an M.2 NVMe SSD into the enclosure and attach the strap.

5. Operating Instructions

5.1 Initial Use and Formatting

If you are using a new M.2 NVMe SSD for the first time, it will not appear in your computer's file explorer until it is initialized, partitioned, and formatted. Follow these general steps:

1. Connect the enclosure with the installed SSD to your computer.
2. **For Windows:** Right-click on 'This PC' (or 'My Computer') and select 'Manage'. Go to 'Disk Management'. Locate your new SSD (it will likely show as 'Unallocated Space'). Right-click on the disk, select 'Initialize Disk', then 'New Simple Volume' to partition and format it.
3. **For macOS:** Open 'Disk Utility' (Applications > Utilities > Disk Utility). Select your new SSD from the sidebar. Click 'Erase', choose a format (e.g., APFS or Mac OS Extended), and click 'Erase' again.
4. Once formatted, the SSD will appear as a usable drive.

5.2 Data Transfer and Performance

This enclosure supports USB 3.1 Gen2 (Type-C) with a theoretical transmission speed of 10Gbps. It also supports UASP (USB Attached SCSI Protocol) and TRIM commands, which optimize data transfer efficiency and SSD longevity.

- For optimal performance, connect the enclosure to a USB 3.1 Gen2 (10Gbps) or higher port on your device.
- The actual speed may vary depending on your SSD's performance, the host device's USB port, and the operating system.



Image 5.1: Highlights the 10Gbps transmission speed, UASP, and TRIM support for efficient data transfer.



Image 5.2: Shows the versatility of the USB-C data cable for connecting to different devices.

Image 5.3: The LED indicator provides visual feedback on the enclosure's activity status.

6. Maintenance

6.1 Heat Dissipation

The enclosure features an aluminum alloy shell, chipset cooling holes, a silicone thermal pad, and an aluminum thermal sheet to ensure excellent heat dissipation. This design helps maintain optimal operating temperatures for your M.2 NVMe SSD, prolonging its lifespan and ensuring stable performance.

- Ensure the thermal pads and sheet are correctly installed between the SSD and the enclosure for effective heat transfer.
- Avoid blocking the chipset cooling holes during operation.

Image 6.1: Diagram illustrating the heat dissipation components: aluminum shell, chipset cooling holes, silicone thermal pad, and aluminum thermal sheet.

6.2 General Care

- Keep the enclosure clean and free from dust.
- Avoid exposing the device to extreme temperatures or humidity.
- Do not drop or subject the enclosure to strong impacts.

7. Troubleshooting

- **SSD Not Detected:**
  - Ensure the M.2 NVMe SSD is correctly inserted and secured with the rubber screw.
  - Verify that the enclosure is properly connected to your computer's USB port.
  - If it's a new SSD, ensure it has been initialized, partitioned, and formatted via Disk Management (Windows) or Disk Utility (macOS) as described in Section 5.1.
  - Check if your SSD is an NVMe M-Key or B&M Key (PCIe based). This enclosure does not support M.2 SATA SSDs.
  - Try connecting to a different USB port or another computer to rule out port or system issues.
- **Slow Transfer Speeds:**
  - Ensure the enclosure is connected to a USB 3.1 Gen2 (10Gbps) or higher port on your computer. Connecting to a USB 2.0 or USB 3.0 port will result in lower speeds.
  - The actual speed is also dependent on the performance of your M.2 NVMe SSD.
  - Verify that your operating system and drivers are up to date.
- **Enclosure Overheating:**
  - Ensure the silicone thermal pad and aluminum thermal sheet are correctly installed on the SSD.
  - Avoid prolonged heavy data transfer operations in poorly ventilated environments.

8. Specifications

Feature	Detail
Model Number	K1689PL
Hardware Interface	USB 3.1 Type C (Gen2)
Data Transfer Rate	10 Gigabits per second (Gbps)
Supported SSD Type	M.2 NVMe M-Key / B&M Key (PCIe based)
Supported SSD Sizes	2230, 2242, 2260, 2280mm
Max Memory Storage Capacity	8 TB
Compatible Devices	Desktop, Laptop, MacBook, iPhone (with OTG), Tablet, PS4, Xbox, TV
Material	ABS Plastic Bracket, Aluminum Shell
Product Dimensions (L x W x H)	4.33" x 1.48" x 0.5" (11cm x 3.75cm x 1.25cm)

Item Weight	91 g
Features	UASP, TRIM, Tool-Free Installation, Plug & Play



Image 8.1: Detailed dimensions of the enclosure and the included USB-C data cable.

9. Warranty and Support

9.1 Warranty Information

This MAIWO M.2 NVMe SSD 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 improper installation.

9.2 Customer Support

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

Please have your model number (K1689PL) and proof of purchase ready when contacting support.

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