MAIWO K1695

MAIWO K1695 USB4.0 NVMe M.2 SSD Enclosure User Manual

Model: K1695

1. INTRODUCTION

The MAIWO K1695 is a tool-free external enclosure designed for M.2 NVMe Solid State Drives (SSDs). It features a USB4.0 Type-C interface, offering data transfer speeds up to 40Gbps. This enclosure is compatible with 2280mm M.2 NVMe SSDs and provides efficient heat dissipation through its aluminum alloy shell and an optional magnetic cooling fan. This manual provides instructions for the proper installation, operation, and maintenance of your MAIWO K1695 enclosure.

Image: Front view of the MAIWO K1695 USB4.0 NVMe M.2 SSD Enclosure.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- MAIWO K1695 USB4.0 NVMe M.2 SSD Enclosure
- USB-C to USB-C 40Gbps Data Cable
- USB-A to USB-C Data Cable
- Magnetic Cooling Fan
- Silicone Thermal Pads
- Aluminum Thermal Pad
- Carabiner and Braided Strap
- User Manual (printed guide)

Image: All components included in the MAIWO K1695 package.

3. SETUP AND INSTALLATION

3.1. M.2 NVMe SSD Installation (Tool-Free)

The MAIWO K1695 enclosure supports 2280mm M.2 NVMe SSDs with M-Key or B&M-Key interfaces. It does not support M.2 SATA SSDs.

1. Gently slide open the enclosure cover. The design is tool-free, allowing for easy access.

2. Align your 2280mm M.2 NVMe SSD with the M-Key slot inside the enclosure.

3. Insert the SSD firmly into the slot at an angle, then press it down until it clicks into place or is secured by the built-in retention mechanism.

4. Apply the provided thermal pad(s) onto the SSD to ensure proper heat transfer to the enclosure body.

5. Slide the enclosure cover back into place until it is securely closed.

Image: Diagram illustrating the tool-free opening and SSD insertion into the enclosure.

Image: Visual guide for M.2 NVMe SSD compatibility (M-Key, B&M-Key) and supported 2280mm size.

3.2. Magnetic Cooling Fan Installation

For enhanced heat dissipation, you can install the included magnetic cooling fan.

1. Open the back cover of the enclosure.

2. Peel off the protective film from the magnet piece and attach it to the designated area on the inner side of the back cover.

3. Reinstall the back cover onto the enclosure.

4. Attach the magnetic fan to the top of the enclosure. The fan will magnetically snap into place.

5. Connect the fan's USB cable to a power source (e.g., a USB port on your computer or a USB power adapter) to activate it.
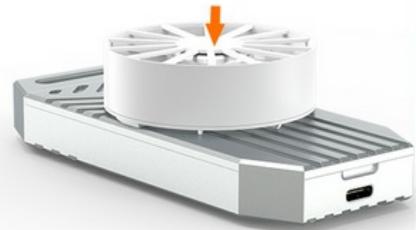
Image: Step-by-step guide for installing the magnetic cooling fan.

4. OPERATING INSTRUCTIONS

4.1. Connecting the Enclosure

After installing your M.2 NVMe SSD, connect the enclosure to your computer or compatible device using the provided USB-C to USB-C cable. For devices without a USB-C port, use the USB-A to USB-C cable.

4.2. System and Device Compatibility

The MAIWO K1695 enclosure is widely compatible with various operating systems and devices:

- **Operating Systems:** Windows, Mac OS, Linux, Android (OTG support required for phones).
- **Devices:** Laptops, Tablets, Phones, Gaming devices.
- **Interface Compatibility:** Fully compatible with USB4, Thunderbolt 3/4, and backward compatible with USB 3.2/3.1/3.0/2.0.

When using with Thunderbolt 3, ensure your device's system is updated to the latest version. The maximum speed with Thunderbolt 3 may be limited to 20Gbps.

Image: Icons illustrating compatibility with various operating systems (Windows, Mac, Linux, Android) and devices (Laptop, Tablet, Phone, Gaming devices).

4.3. Performance Notes

The enclosure supports data transfer speeds up to 40Gbps. Actual read and write speeds can reach 3200+MB/s. However, the real speed depends on several factors:

- The specific M.2 NVMe SSD model used.
- The USB port and interface capabilities of your computer (e.g., USB4, Thunderbolt 4).
- Your computer's operating system and hardware configuration.
- The quality and length of the USB cable used.

The enclosure supports UASP (USB Attached SCSI Protocol) when operating on Windows 8.1 or above, which can further enhance transfer performance.
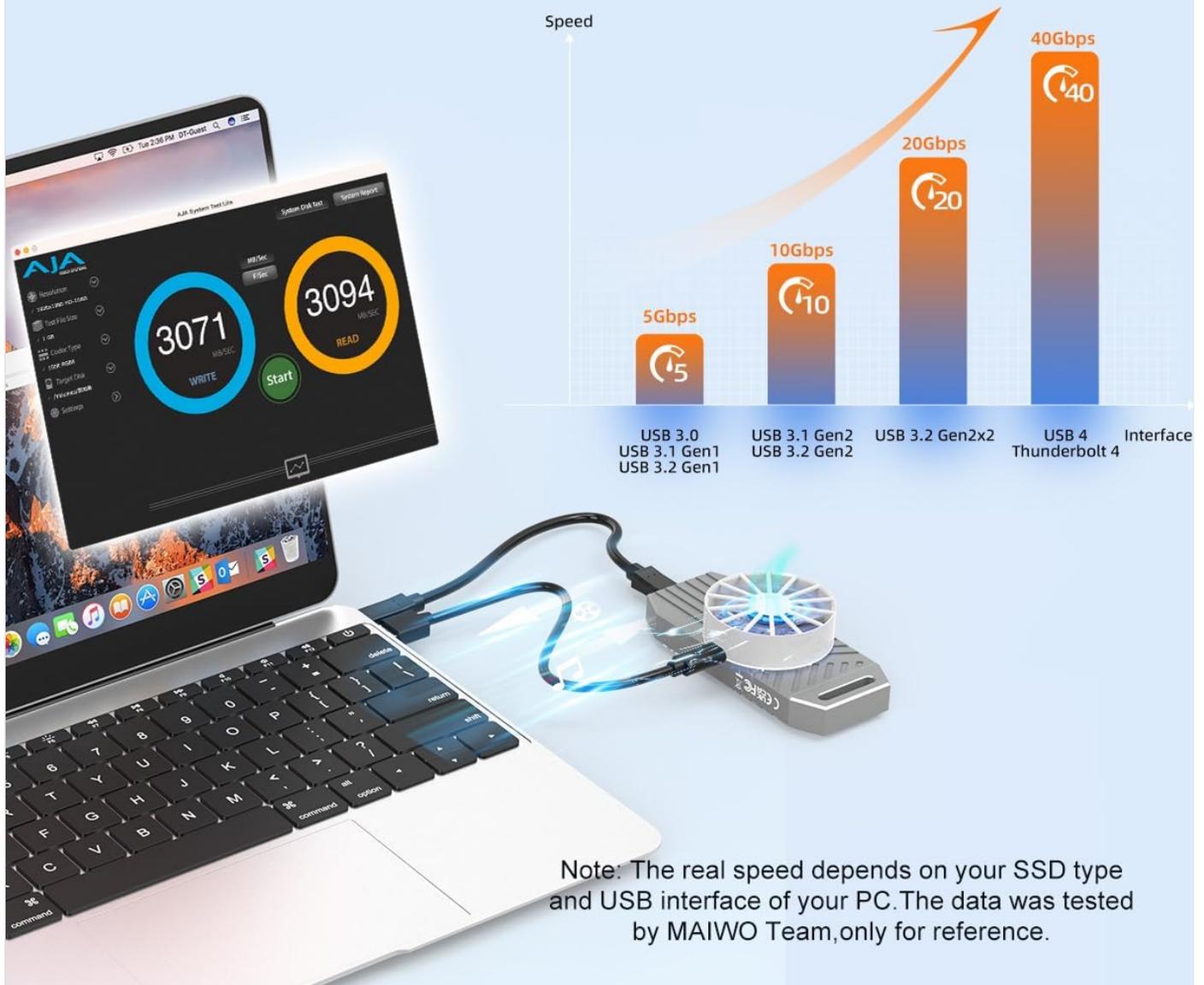
Image: Graph comparing data transfer speeds of various USB standards, highlighting 40Gbps for USB4/Thunderbolt 4.

5. MAINTENANCE

To ensure the longevity and optimal performance of your MAIWO K1695 enclosure, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the enclosure. Avoid using liquid cleaners or solvents.
- **Heat Dissipation:** The enclosure features multiple heat dissipation methods, including an aluminum alloy shell, silicone thermal pads, an aluminum thermal pad, groove design, and bilateral hollowed-out design. Ensure the enclosure is not covered or placed in an area with poor airflow, especially during extended use, to allow for efficient cooling. If using the magnetic fan, ensure it is clean and unobstructed.
- **Handling:** Handle the enclosure with care. Avoid dropping it or subjecting it to strong impacts.
- **Storage:** When not in use, store the enclosure in a cool, dry place away from direct sunlight and extreme temperatures.

Perfect Heat Dissipation

Magnetic Cooling Fan

CNC technology aluminum shell

Aluminum thermal strip

Silico thermal strip
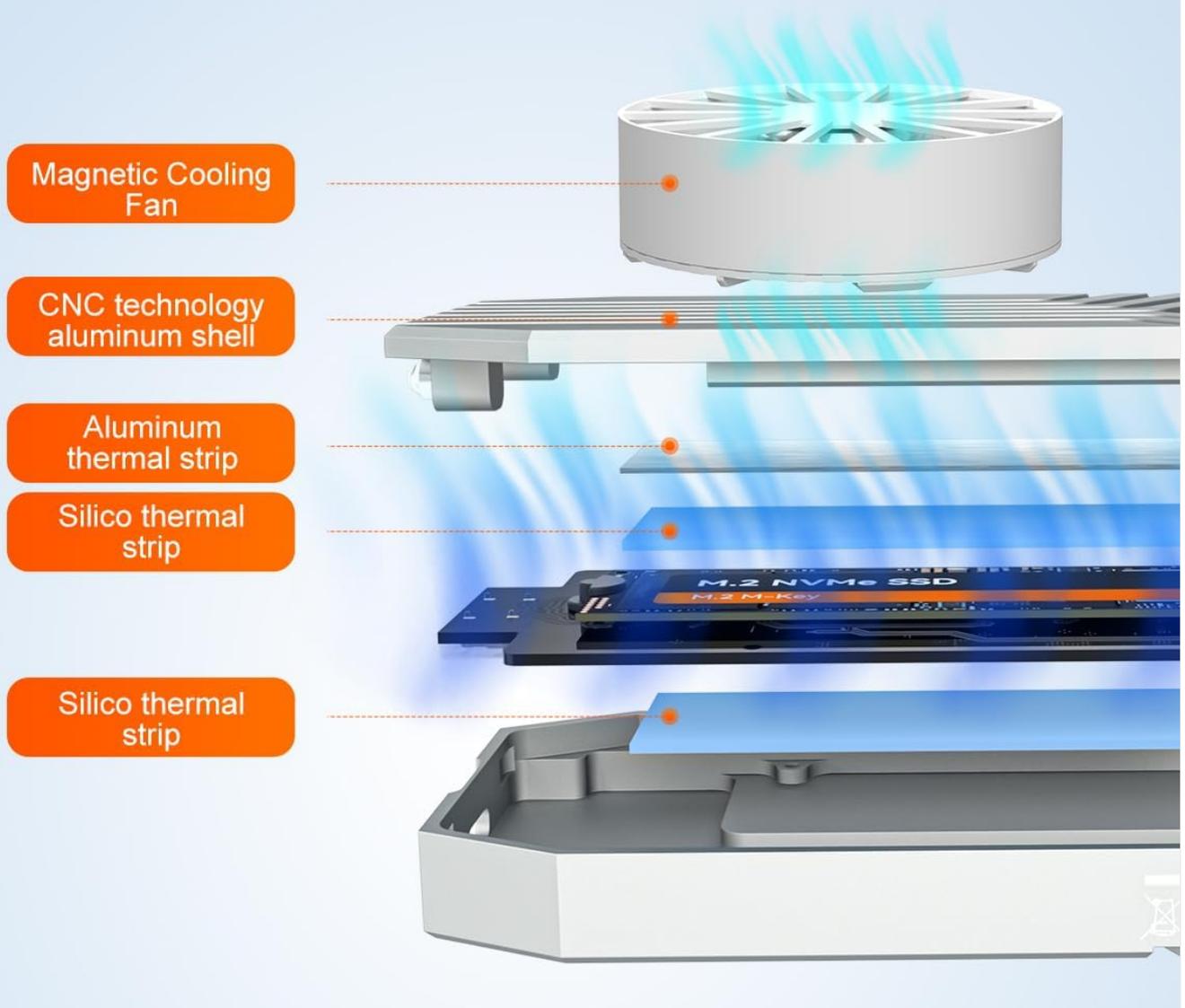
Silico thermal strip

M.2 NVMe SSD
M.2 M-Key

Image: Exploded view showing the layers and components contributing to the enclosure's heat dissipation, including the magnetic cooling fan, CNC aluminum shell, and thermal pads.

6. TROUBLESHOOTING

If you encounter issues with your MAIWO K1695 enclosure, refer to the following common problems and solutions:

- **Enclosure not recognized by the computer:**

  - Ensure the USB cable is securely connected to both the enclosure and the computer.
  - Try connecting to a different USB port on your computer.
  - Test with a different USB cable.
  - Verify that the M.2 NVMe SSD is correctly installed inside the enclosure and fully seated in its slot.
  - Check Disk Management (Windows) or Disk Utility (Mac OS) to see if the drive is detected but uninitialized or unformatted. If so, initialize and format the drive.

- **Slow data transfer speeds:**

- Ensure you are using a USB4 or Thunderbolt 4 compatible port on your computer for maximum speed.
- Confirm that your M.2 NVMe SSD is capable of high speeds.
- Use the provided high-speed USB-C to USB-C cable.
- Close other applications that might be consuming system resources or disk I/O.
- Ensure your operating system supports UASP (Windows 8.1 or later).

- **Enclosure feels hot during operation:**

  - Some heat is normal, especially during heavy data transfer, due to the high performance of NVMe SSDs.
  - Ensure the thermal pads are correctly placed on the SSD.
  - If using the magnetic fan, ensure it is powered on and functioning.
  - Ensure the enclosure has adequate airflow and is not obstructed.

- **Magnetic fan not spinning:**

  - Ensure the fan's USB cable is properly connected to a power source.
  - Check if the fan is securely attached to the enclosure.

7. SPECIFICATIONS

Feature	Detail
Model Number	K1695
Interface	USB4.0 Type-C (40Gbps)
Compatibility	M-Key NVMe M.2 SSD 2280mm
Max Capacity Support	Up to 8TB NVMe SSD
Chipset	ASM2464PD
Heat Dissipation	Aluminum alloy shell, Silicone thermal pad, Aluminum thermal pad, Groove design, Bilateral hollowed-out design, Built-in Turbo Fan
Dimensions	118 x 50 x 14.5 mm (4.65 x 1.97 x 0.57 inches)
Item Weight	4.5 ounces
Color	Sliver
Special Features	Tool-Free, Portable, Blue Indicator, Carabiner and Braided Strap
Operating Systems	Windows, Mac OS, Linux, Android

8. WARRANTY AND SUPPORT

MAIWO products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official MAIWO website. If you require technical assistance or have

questions not covered in this manual, please contact MAIWO customer support through their official channels.