MAIWO 1 Bay - M.2 NVMe

MAIWO M.2 NVMe to USB-C Adapter User Manual

Model: 1 Bay - M.2 NVMe

Brand: MAIWO

1. Introduction

The MAIWO M.2 NVMe to USB-C Adapter provides a convenient and efficient solution for connecting M.2 NVMe Solid State Drives (SSDs) to various devices via a USB-C port. This tool-free adapter supports high-speed data transfer, making it ideal for data recovery, cloning, and expanding storage capacity. Its compact and integrated design ensures portability and ease of use.

Figure 1: MAIWO M.2 NVMe to USB-C Adapter. This image displays the adapter's sleek, grey casing with the MAIWO logo, an LED indicator, and the integrated USB-C cable.

2. Safety Information

- Do not expose the device to water or excessive moisture.
- Avoid extreme temperatures and direct sunlight.
- Handle SSDs with care to prevent electrostatic discharge.
- Keep out of reach of children.
- Do not attempt to disassemble or modify the adapter.

3. Package Contents

- 1x MAIWO M.2 NVMe PCIe to USB Adapter
- 1x User Manual

4. Product Features

- **High-Speed Data Transfer:** USB 3.2 Gen2x1 output interface provides 10Gbps transfer speed, supporting UASP and TRIM for efficient data handling.
- **Broad SSD Compatibility:** Supports M.2 PCIe NVMe M-Key SSDs of sizes 2230, 2242, 2260, 2280, and 22110mm.
- **Tool-Free Design:** Semi-open and inline design allows for easy, tool-free SSD insertion and removal.
- **Large Capacity Support:** Compatible with M.2 NVMe SSDs up to 8TB.
- **Integrated Cable:** Features a 10cm short, integrated USB-C cable to prevent loss and winding, enhancing portability.
- **JMS583 Control Chip:** Equipped with a JMS583 chipset for stable and reliable read/write performance.
- **LED Indicator:** An intelligent LED indicator provides status updates.

Figure 2: Key design features of the adapter. This image highlights the LED indicator, the tool-free inline design for SSD insertion, and the short, integrated cable for convenience.

5. Compatibility

5.1 SSD Compatibility

- Supports M.2 PCIe NVMe M-Key SSDs (2230, 2242, 2260, 2280, 22110mm).
- **Important:** Does **NOT** support M.2 SATA B+M Key SSDs.
- **Important:** Does **NOT** support any SSDs with heatsinks due to the adapter's design.

Figure 3: SSD compatibility overview. This graphic clearly distinguishes between supported M-Key NVMe SSDs and unsupported B+M Key SATA SSDs.

5.2 System and Device Compatibility

- **Operating Systems:** Windows, macOS, Linux, Android, Harmony OS.
- **Compatible Devices:** Desktop computers, Laptops (including Macbooks), Tablets, Mobile Phones (requires OTG function), PS4, PS5, TVs, Routers, etc.

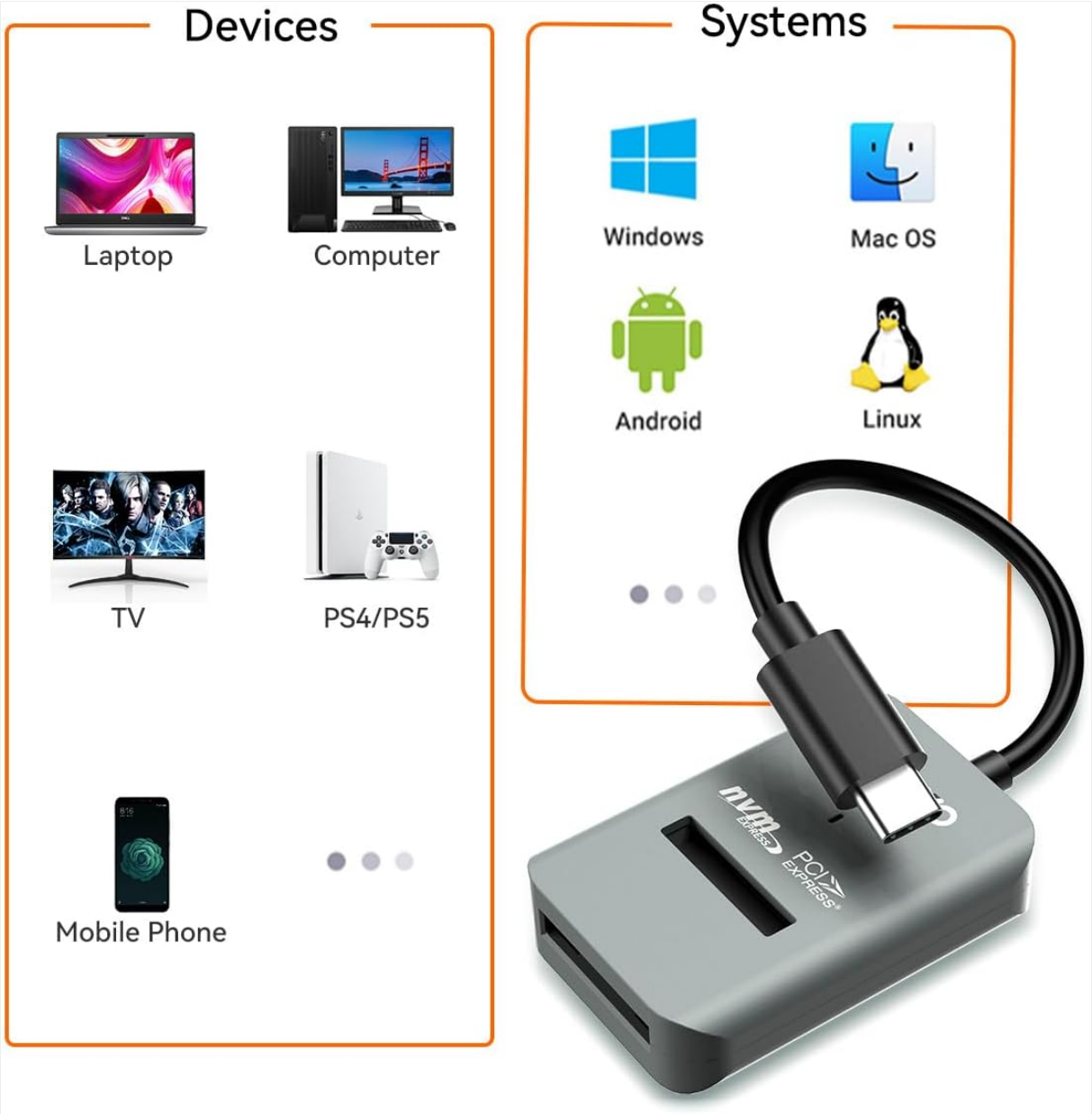


Figure 4: Device and system compatibility. This image illustrates the wide range of devices and operating systems that can be used with the adapter.

6. Setup Instructions

6.1 Inserting the M.2 NVMe SSD

1. Hold the MAIWO M.2 NVMe adapter firmly.
2. Align your M.2 NVMe M-Key SSD with the slot on the adapter. Ensure the notch on the SSD matches the key in the slot.
3. Gently slide the SSD into the adapter until it is fully seated. The tool-free, semi-open design allows for easy insertion.

Figure 5: SSD insertion process. This image shows a hand carefully inserting an M.2 NVMe SSD into the adapter's slot.

6.2 Connecting the Adapter to Your Device

1. Connect the integrated USB-C cable of the adapter to an available USB-C port on your computer, laptop, mobile phone, or other compatible device.
2. The adapter is plug-and-play; drivers are typically not required for most operating systems.
3. The LED indicator on the adapter will illuminate when connected and flash during data transfer.

6.3 Initializing New SSDs (Windows)

If you are using a brand new M.2 NVMe SSD, it may not appear in 'My Computer' or 'File Explorer' until it is initialized, partitioned, and formatted. Follow these steps for Windows systems:

1. Insert the drive into the adapter and connect the adapter to your PC.
2. Right-click on the 'Start' button and select 'Disk Management'.
3. In 'Disk Management', locate your new disk (it will likely be marked as 'Unknown' or 'Not Initialized').
4. Right-click on the disk and select 'Initialize Disk'.
5. Choose the partition style: **MBR** for disks less than 2TB, or **GPT** for disks 2TB or larger. Click 'OK'.
6. After initialization, the disk will appear as 'Unallocated Space'. Right-click on the unallocated space and select 'New Simple Volume'.
7. Follow the 'New Simple Volume Wizard' to assign a drive letter, choose a file system (e.g., NTFS), and format the drive. Click 'Next' and 'Finish' to complete the process.

Your SSD should now be ready for use.

Your browser does not support the video tag.

Video 1: Demonstration of MAIWO M.2 NVMe SSD to USB-C Adapter. This video illustrates the tool-free installation of an M.2 NVMe SSD, highlights the integrated Type-C cable, blind insert support, 10Gbps data transfer speed, and compatibility with mobile phones (requiring OTG function) and its portability.

7. Operating Instructions

7.1 Data Transfer

Once the SSD is properly inserted and the adapter is connected to your device, the SSD will appear as an external drive. You can then drag and drop files, copy, paste, or use any file management software to transfer data to and from the SSD.

Figure 6: High-speed data transfer. This image shows the adapter connected to a laptop, illustrating the rapid data transfer capabilities of the USB 3.2 Gen2x1 interface.

7.2 Mobile Phone Usage

For mobile phone usage, ensure your phone supports the OTG (On-The-Go) function. Connect the adapter to your phone's USB-C port. The SSD will be accessible through your phone's file manager, allowing you to read and write data directly.

Figure 7: Versatile usage scenarios. This image displays the adapter being used with a laptop, mobile phone, TV, and PS4, highlighting its adaptability across different devices.

8. Maintenance

- Keep the adapter clean and free from dust. Use a soft, dry cloth for cleaning.
- Store the adapter in a cool, dry place when not in use.
- Avoid dropping or subjecting the adapter to strong impacts.
- Ensure proper ventilation during extended use, although the semi-open design aids in heat dissipation.

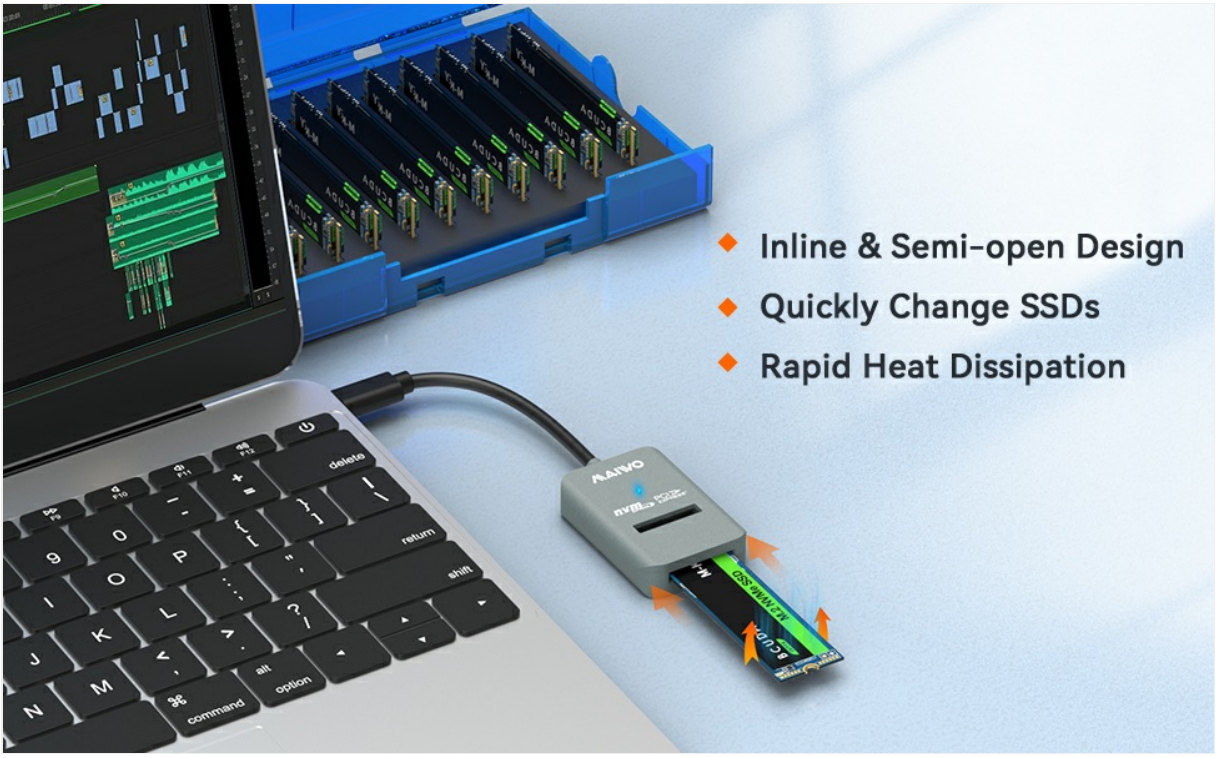


Figure 8: Design for heat dissipation. This image shows the adapter's semi-open design, which facilitates rapid heat dissipation from the inserted SSD.

9. Troubleshooting

- **SSD Not Recognized:**
  - Ensure the SSD is fully and correctly inserted into the adapter.
  - Verify the adapter's USB-C cable is securely connected to your device.
  - For new SSDs, ensure it has been initialized, partitioned, and formatted (refer to Section 6.3).
  - Confirm the SSD is an M.2 NVMe M-Key type and not an M.2 SATA B+M Key.
  - Try connecting to a different USB-C port or another device to rule out port issues.
- **Slow Data Transfer Speeds:**
  - Ensure your device's USB-C port supports USB 3.2 Gen2x1 (10Gbps) or higher. Connecting to a slower USB port (e.g., USB 2.0 or USB 3.0) will result in lower speeds.
  - Verify your operating system supports UASP and TRIM for optimal performance.
  - Close other applications that might be consuming system resources or disk I/O.
- **Adapter Overheating:**
  - The semi-open design helps with heat dissipation. Ensure the adapter is not covered or placed in an enclosed space during heavy use.
  - High-performance NVMe SSDs can generate heat. If overheating persists, reduce continuous heavy data transfer or consider a brief pause.

10. Specifications

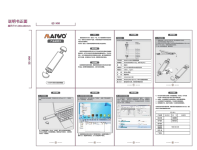
Feature	Specification
Model Number	1 Bay - M.2 NVMe

Hardware Interface	USB 3.2 Gen 2 (USB-C)
Data Transfer Rate	10 Gigabits Per Second
Compatible SSDs	M.2 PCIe NVMe M-Key (2230/2242/2260/2280/22110mm)
Max Memory Storage Capacity	8 TB
Compatible Devices	Desktop/Laptop/Xbox/PS5/PS4/TV/Router/Phone, etc.
Material	High-strength ABS Plastic
Item Weight	22 Grams (0.776 ounces)
Product Dimensions (LxWxH)	6.81" x 1.45" x 0.47" (17.3cm x 3.68cm x 1.19cm)
Cable Length	10cm (4 inches)

11. Warranty and Support

MAIWO products are covered by a manufacturer's warranty. For specific warranty details, technical support, or customer service inquiries, please refer to the official MAIWO website or contact your retailer. Keep your purchase receipt for warranty claims.

Related Documents - 1 Bay - M.2 NVMe

	MAIWO M.2 SSD Enclosure K1689/K1690 User Manual - High-Speed NVMe/SATA USB-C Comprehensive user manual for the MAIWO M.2 SSD Enclosure (Models K1689/K1690). Learn how to install NVMe and SATA M.2 SSDs, connect via USB Type-C, and format your drive for high-speed data transfer. Includes specifications, installation steps, and warranty information.
	MAIWO Dual Bay NVMe RAID Enclosure User Manual User manual for the MAIWO Dual Bay NVMe RAID Enclosure, detailing its features, setup, and RAID configurations. Supports USB 3.2 Gen2x2 20Gbps and M.2 NVMe SSDs.
	MAIWO K1725P2 M.2 NVMe/SATA SSD Enclosure User Manual & Installation Guide Comprehensive guide to installing and formatting an M.2 NVMe or SATA SSD in the MAIWO K1725P2 USB-C enclosure. Includes step-by-step instructions for setup, connection, and disk management.
	MAIWO K1683P2 M.2 NVMe/SATA SSD Enclosure User Manual & Installation Guide Comprehensive user manual and quick installation guide for the MAIWO K1683P2 M.2 SSD enclosure. Learn how to install, format, and use your NVMe or SATA M.2 SSD with USB 3.1 and Type-C connectivity.
	MAIWO K1698P2 M.2 SSD MAIWO K1698P2 M.2 SSD M.2 NVMe/SATA

	MAIWO K3084A 4-Bay HDD Docking Station & Cloner - User Manual & Guide Comprehensive user manual for the MAIWO K3084A 4-bay hard drive docking station and cloner. Learn setup, cloning, troubleshooting, and specifications for your SATA HDD/SSD storage solution.