MAIWO K3016S

MAIWO K3016S 2 Bay M.2 SATA Duplicator Instruction Manual

Model: K3016S | Brand: MAIWO

1. PRODUCT OVERVIEW

The MAIWO K3016S is a 2-bay M.2 SATA docking station designed for duplicating and managing M.2 SATA Solid State Drives (SSDs). It supports offline cloning, allowing you to duplicate drives without connecting to a computer. This device is compatible with M.2 SATA SSDs (B+M Key) of various sizes. **Important: This product is incompatible with M.2 NVMe SSDs.**

Image: MAIWO K3016S 2 Bay M.2 SATA Duplicator with two M.2 SSDs inserted.

2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- MAIWO K3016S M.2 SATA Duplicator
- USB Type-C to Type-C Cable
- USB Type-C to Type-A Cable
- DC Power Cable
- Power Adapter (5V/3A)

3. PRODUCT FEATURES

- **2-Bay M.2 SATA Support:** Accommodates two M.2 SATA SSDs (B+M Key).
- **Offline Clone Function:** Duplicate SSDs without a computer connection.
- **Tool-Free Installation:** Easy insertion and removal of M.2 SSDs.

- **High-Speed Data Transfer:** USB 3.0 Gen1 interface provides up to 5Gbps transfer rates.
- **Wide Compatibility:** Connects to PCs, laptops, smart TVs, PS4, Xbox, and other devices.
- **Independent Power Supply:** Ensures stable operation and protects hard drives.
- **Supported M.2 SATA SSD Sizes:** 2230, 2242, 2260, 2280.

Image: Illustration of supported M.2 SATA SSD sizes (2230, 2242, 2260, 2280) and B+M Key compatibility.

4. SETUP AND READ/WRITE OPERATION

This section details how to set up the duplicator and use it for reading and writing data when connected to a computer.

1. **Insert Drives:** Gently insert your M.2 SATA SSDs into the 'Source' and 'Target' slots. Ensure they are M.2 SATA (B+M Key) and not NVMe.
2. **Connect Power:** Insert the DC power cable into the 'DC IN' port on the duplicator, then connect the power adapter to a power outlet.
3. **Connect to PC:** Insert the data cable (USB Type-C to Type-C or Type-C to Type-A) into the 'PC' port on the duplicator and the other end into your computer's USB port.

4. **Power On:** Press the power switch on the duplicator. Wait 3-5 seconds for the drive slot LED lights to illuminate, indicating the drives are recognized.

Initializing a New Disk (Windows):

1. Right-click on 'This PC' and select 'Manage'.

2. In the Computer Management window, navigate to 'Disk Management' under 'Storage'.

3. Locate your new SSD. It may appear as 'Unknown' or 'Not Initialized'. Right-click on the disk and select 'Initialize Disk'. Choose MBR for disks smaller than 2TB or GPT for disks larger than 2TB.

4. After initialization, right-click on the unallocated space of the new disk and select 'New Simple Volume'. Follow the wizard to assign a drive letter and format the disk (NTFS is recommended).

5. Once formatted, your disk will be ready for use.

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Video: Demonstrates product fitting, power connection, and disk initialization for read/write operations.

5. OFFLINE CLONE FUNCTION

The offline clone function allows you to duplicate an M.2 SATA SSD without connecting the duplicator to a computer. This is ideal for system migration or data backup.

1. **Insert Source and Target Drives:** Insert the source M.2 SATA SSD into the 'Source' slot (HDD1) and the target M.2 SATA SSD into the 'Target' slot (HDD2). **Ensure the target disk's capacity is equal to or larger than the source disk's capacity.**

2. **Connect Power:** Insert the DC power cable into the 'DC IN' port on the duplicator, then connect the power adapter to a power outlet. **Do not connect the duplicator to a computer via the 'PC' port during offline cloning.**

3. **Power On:** Press the power switch on the duplicator. Wait 3-5 seconds for the drive slot LED lights to illuminate.

4. **Initiate Clone:** Press and hold the clone button (usually a small button near the LEDs) for approximately 5 seconds until the progress indicator LEDs (25%, 50%, 75%, 100%) begin to flicker. This indicates the cloning process has started.

5. **Monitor Progress:** The progress indicator LEDs will flicker sequentially (25%, 50%, 75%, 100%) to show the cloning status. Once all LEDs are solid, the clone is complete.

Image: Two M.2 SATA SSDs inserted into the Source and Target slots for offline cloning.

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Video: Demonstrates the offline cloning process, including inserting drives, connecting power, and initiating the clone.

6. CONNECTING TO A PHONE

The MAIWO K3016S can also be connected to compatible smartphones for data access.

1. **Ensure OTG Support:** Your smartphone must support USB On-The-Go (OTG) functionality.

2. **Connect Power:** Always connect the DC power cable to the duplicator and a power outlet when connecting to a phone. The DC interface cannot be connected to a computer's USB port for power in this scenario.

3. **Connect to Phone:** Use a compatible USB Type-C to Type-C cable to connect the duplicator's 'PC' port to your smartphone.

4. **Access Data:** Your phone should recognize the connected SSD as external storage. You can then use your phone's file manager to browse and manage files.

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Video: Demonstrates connecting the duplicator to a smartphone and accessing files.

7. TROUBLESHOOTING

- **Device Not Recognized by PC:**

    - Ensure the power adapter is connected and the duplicator is powered on.
    - Verify that the data cable is securely connected to both the duplicator's 'PC' port and your computer's USB port.
    - Confirm that the inserted SSDs are M.2 SATA (B+M Key) and not M.2 NVMe. This device does not support NVMe SSDs.
    - For new SSDs, ensure they are initialized and formatted in Disk Management (Windows) or Disk Utility (macOS).

- **Offline Clone Fails or Does Not Start:**

    - Double-check that the target SSD's capacity is equal to or larger than the source SSD's capacity.
    - Ensure the duplicator is not connected to a computer via the 'PC' port during offline cloning.
    - Confirm that the power adapter is connected and providing sufficient power.
    - Press and hold the clone button for at least 5 seconds until the progress indicator LEDs begin to flicker.
    - If the progress indicator LEDs do not update smoothly (e.g., stuck at 25%), the cloning process may still be ongoing. Allow ample time for completion, especially for large drives.

- **Device Gets Warm During Operation:**

    - It is normal for the device and SSDs to generate some heat during intensive operations like cloning or heavy data transfer. Ensure adequate ventilation around the device.

8. SPECIFICATIONS

Product Dimensions	3 x 3 x 0.7 inches (7.62 x 7.62 x 1.78 cm)
Item Weight	5.3 ounces (150 grams)
Hardware Interface	USB 3.0 Type C
Compatible Devices	Desktop, Laptop, Smartphone, Smart TV, PS4, XBOX, Router
Total USB Ports	1 (Type-C for PC connection)
Number of Drive Bays	2
Supported SSD Type	M.2 SATA SSD (B+M Key)
Incompatible SSD Type	M.2 NVMe SSD
Wattage	15 watts
Input Voltage	5 Volts

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official MAIWO website or

contact their customer service directly. Keep your purchase receipt for warranty claims.