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Inateck SA02005

Inateck SA02005 M.2 NVMe Dual SSD Enclosure User Manual

MODEL: SA02005

Introduction

This manual provides comprehensive instructions for the Inateck SA02005 M.2 NVMe Dual SSD Enclosure. It covers product features, package contents, setup procedures, operational modes including data transfer and offline cloning, maintenance guidelines, troubleshooting steps, and technical specifications. Please read this manual thoroughly before using the device to ensure proper operation and to maximize its performance and longevity.

Package Contents

- Inateck SA02005 M.2 NVMe Dual SSD Enclosure
- USB-C to USB-A/C Data Cable
- Power Adapter (5V/4A)
- Silicone Thermal Pads
- User Manual

Product Overview

Familiarize yourself with the components of your Inateck SA02005 enclosure:

Compatible with Multiple Systems

Plug and Play:

Mac OS 10.5 and above

Windows 7 and above

Linux



Image: Inateck SA02005 M.2 NVMe Dual SSD Enclosure with labeled components. This image highlights the Source Drive Indicator, Target Drive Indicator, Power Indicator, Clone Button, Power Button, and Open-cover Button, along with the Source and Target drive slots.

- **SSD Slots (Source & Target):** Two slots for M.2 NVMe SSDs.
- **Open-cover Buttons:** Located on the sides, these buttons release the top covers for SSD installation.
- **Power Button:** Controls the device's power.
- **Clone Button:** Initiates the offline cloning process.
- **LED Indicators:** Display power status, drive activity, and cloning progress (25%, 50%, 75%, 100%).
- **USB-C Port:** For data connection to a host device.

- **DC 5V Power Input:** For connecting the external power adapter.
- **Cooling Fan & Vents:** Integrated for efficient heat dissipation.

Setup

1. Installing M.2 SSDs

1. **Open the Enclosure:** Press the open-cover buttons on both sides of the enclosure simultaneously to release and open the top covers.



Image: A hand demonstrating how to open the Inateck SA02005 enclosure by pressing the side buttons, revealing the internal SSD slots.

2. **Insert SSDs:** Carefully insert your M.2 NVMe SSDs (M Key or B+M Key, sizes 2230/2242/2260/2280) into the

designated slots. Ensure they are seated firmly. The enclosure supports various M.2 NVMe SSD sizes.

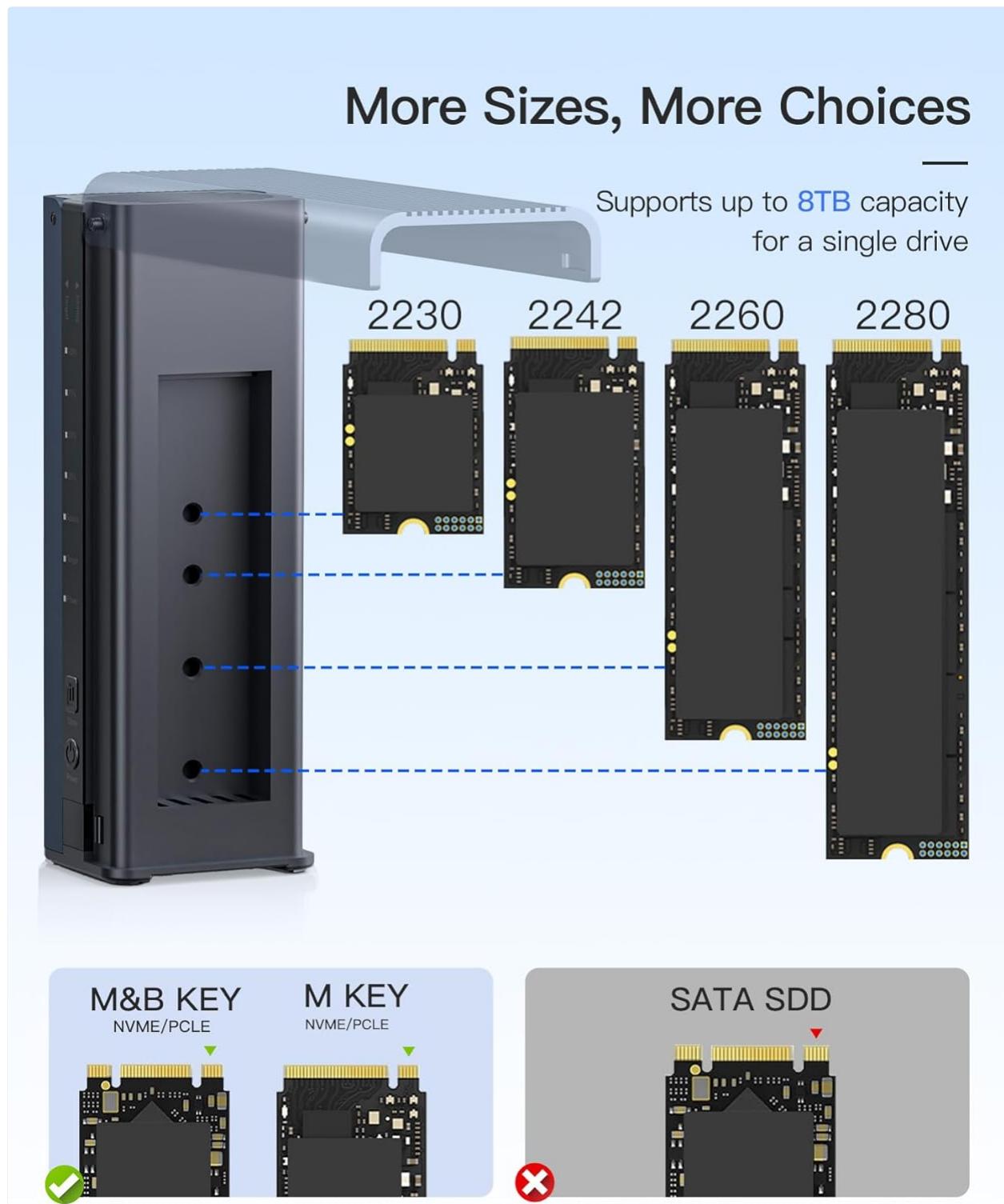


Image: A diagram illustrating the compatibility of the enclosure with M.2 NVMe SSDs of various lengths (2230, 2242, 2260, 2280) and M Key / B+M Key types. It also shows that SATA SSDs are not supported.

- Apply Thermal Pad:** Remove the protective film from a silicone thermal pad and place it directly on top of each inserted M.2 SSD. This enhances heat dissipation.
- Close the Enclosure:** Gently close the top covers until they click securely into place.

2. Connecting to a Computer

- Connect Power:** Plug the provided power adapter into the DC 5V input port on the enclosure, then connect it to a power outlet.
- Connect Data Cable:** Use the USB-C to USB-A/C data cable to connect the enclosure's USB-C port to an

available USB port on your computer.

Operating Modes

1. Data Transfer Mode

Once connected to your computer, the enclosure functions as an external dual SSD docking station. It supports simultaneous read and write operations for both installed SSDs.

- **High-Speed Transmission:** The enclosure utilizes USB 3.2 technology, offering data transfer speeds of up to 10Gbps for a single drive.



Image: The Inateck SA02005 enclosure connected to a laptop via USB-C, illustrating its 10Gbps high-speed data transfer

capability.

- **Wide Compatibility:** The device is plug-and-play compatible with Windows 7 and above, Mac OS 10.5 and above, and Linux operating systems.

2-in-1 M.2 SSD Enclosure



Target Drive (B) > Source Drive (A)



Cannot use two hard drives of the same capacity

Image: The Inateck SA02005 enclosure connected to a laptop, demonstrating its compatibility with multiple operating systems like Mac OS, Windows, and Linux.

- **Automatic Sleep Function:** To conserve power and extend SSD lifespan, the enclosure will automatically enter sleep mode after 10 minutes of inactivity. Note that the exact sleep time may vary depending on the host system.
- **Built-in Cooling Fan:** The integrated cooling fan and aluminum shell vents provide efficient heat dissipation. The fan activates automatically when the internal temperature reaches a certain threshold during use.

Built-in Cooling Fan

Rapid heat dissipation



Temperature test

Data from inateck laboratory

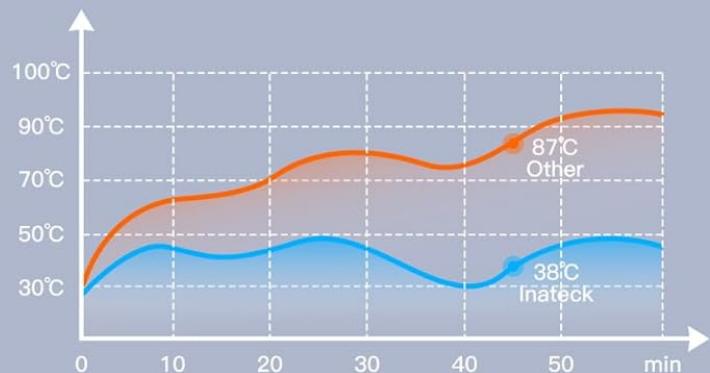


Image: An exploded view of the Inateck SA02005 enclosure highlighting the built-in cooling fan and ventilation. A graph illustrates temperature reduction with the Inateck cooling system compared to other solutions.

2. Offline Cloning Mode

The enclosure supports offline cloning of two M.2 SSDs without requiring a computer connection. This feature is ideal for duplicating drives or upgrading to a larger capacity SSD.

One-Click Offline Cloning

5V/4A power adapter included



Image: The Inateck SA02005 enclosure set up for one-click offline cloning, showing a source SSD and a target SSD, with an arrow indicating the cloning direction. The power adapter is connected.

- 1. Prepare Drives:** Insert the source SSD into the 'Source' slot and the target SSD into the 'Target' slot.
- 2. Important Note:** The capacity of the target drive must be greater than or equal to the capacity of the source drive for successful cloning.
- 3. Connect Power:** Ensure the power adapter is connected to the enclosure and a power outlet. The enclosure does not need to be connected to a computer for offline cloning.
- 4. Initiate Cloning:** Press and hold the 'Clone' button for approximately 5 seconds until the LED indicator lights begin to flash, indicating the start of the cloning process.
- 5. Monitor Progress:** The LED indicators (25%, 50%, 75%, 100%) will illuminate sequentially to show the cloning progress.

6. **Completion:** Cloning is complete when the 100% LED indicator remains solid.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the enclosure. Avoid using liquid cleaners or solvents.
- **Ventilation:** Ensure the cooling vents are not obstructed to maintain optimal airflow and heat dissipation.
- **Storage:** When not in use, store the enclosure in a cool, dry place away from direct sunlight and extreme temperatures.

Troubleshooting

- **SSD Not Recognized by Computer:**

- Ensure the SSDs are correctly inserted into the slots.
- Verify that the USB data cable and power adapter are securely connected.
- Try connecting the enclosure to a different USB port on your computer.
- For new SSDs, they may need to be initialized and formatted in your operating system's Disk Management (Windows) or Disk Utility (Mac OS) before they can be used.
- Confirm the SSD is an M.2 NVMe (M Key or B+M Key) and not a SATA SSD, as SATA SSDs are not supported.

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

- Ensure the target SSD's capacity is greater than or equal to the source SSD's capacity.
- Verify both SSDs are properly seated in their respective 'Source' and 'Target' slots.
- Confirm the power adapter is connected and providing power.
- Press and hold the 'Clone' button for the required 5 seconds until the indicator lights flash.

- **Slow Data Transfer Speeds:**

- Ensure you are connecting the enclosure to a USB 3.2 Gen 2 (10Gbps) compatible port on your computer. Older USB ports (e.g., USB 2.0, USB 3.0/3.1 Gen 1) will result in lower speeds.
- Check the condition of the USB data cable. Try a different high-quality USB 3.2 Gen 2 cable if available.
- Performance can also be affected by the SSD's speed and the host system's capabilities.

- **Enclosure Overheating:**

- Ensure the thermal pads are correctly placed on the SSDs.
- Verify that the cooling vents are not blocked.
- The built-in fan activates automatically when needed. If the fan is not audible during heavy use, contact support.

Specifications

Model Number	SA02005
Compatible SSDs	M.2 NVMe (M Key & B+M Key)
SSD Sizes Supported	2230, 2242, 2260, 2280
Max Single Drive Capacity	Up to 8TB

Data Transfer Rate	Up to 10Gbps (USB 3.2 Gen 2)
Hardware Interface	USB Type-C
Compatible Operating Systems	Windows 7 and above, Mac OS 10.5 and above, Linux
Cooling System	Built-in Cooling Fan, Aluminum Shell Vents
Special Features	Offline Cloning, Automatic Sleep Mode
Power Input	DC 5V/4A
Product Dimensions	5.12 x 1.77 x 1.46 inches
Item Weight	5.6 ounces

Warranty and Support

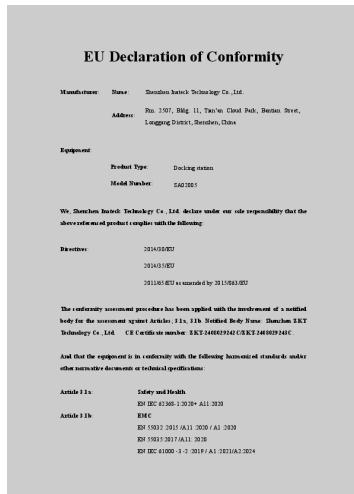
Inateck products are designed for reliability and performance. This product is covered by a manufacturer's warranty. For detailed warranty information, technical support, or service inquiries, please visit the official Inateck website or contact their customer support team. Please retain your proof of purchase for warranty claims.

Related Documents - SA02005

 Inateck Instruction Manual SA02003 USB 3.0 Dual SATA HDD Docking Station With Offline Clone Function English (English) - Français (Français) - Español (Español)	<p><u>Inateck SA02003 USB 3.0 Dual SATA HDD Docking Station with Offline Clone Function - Instruction Manual</u></p> <p>Instruction manual for the Inateck SA02003 USB 3.0 Dual SATA HDD Docking Station, detailing its features, usage, technical specifications, and troubleshooting.</p>
 UA1001 User Manual 2.5"/3.5" SATA	<p><u>Inateck UA1001 User Manual - USB 3.0 to SATA Adapter</u></p> <p>User manual for the Inateck UA1001, a USB 3.0 to SATA adapter supporting 2.5"/3.5" HDDs and SSDs. Features USB 3.0 5Gbps, SATA III, UASP for faster data transfer, and includes service center contact information and compliance declarations.</p>
 Inateck Instruction Manual FD2005 USB 3.0 Dual SATA HDD Docking Station With Offline Clone Function	<p><u>Inateck FD2005 USB 3.0 Dual SATA HDD Docking Station with Offline Clone Function - User Manual</u></p> <p>Get detailed instructions for the Inateck FD2005 USB 3.0 Dual SATA HDD Docking Station. Learn setup, offline hard drive cloning, technical specifications, and troubleshooting tips for seamless data management.</p>

 Installation Guide 10Gbps USB C Hub Version 1.0 <p>English · Deutsch · 日本語 · Français · Italiano · Español</p>	<p>Inateck HB2026 10Gbps USB C Hub Installation Guide</p> <p>Official installation guide for the Inateck HB2026 10Gbps USB C Hub, detailing its features, package contents, compliance information, and service center contacts.</p>
	<p>Inateck RedComets U25 PCIe to USB Card Installation Guide</p> <p>This installation guide provides comprehensive instructions for setting up the Inateck RedComets U25 PCIe to USB card. It includes details on package contents, declarations of conformity, and service contact information for global support. The guide is available in multiple languages.</p>
	<p>Inateck KTU3FR-4P/KT4006 USB 3.0 PCI Express Card User Manual</p> <p>User manual for the Inateck KTU3FR-4P/KT4006 USB 3.0 PCI Express Card, providing hardware installation, system requirements, package contents, and compliance information.</p>

Documents - Inateck – SA02005



[pdf] Specifications Declaration of Conformity

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3817 7941 |||

EU Declaration of Conformity Manufacturer: Name: Shenzhen Inateck Technology Co., Ltd. Rm. 2507, Bldg. 11, Tian'an Cloud Park, Bantian Street, Address: Longgang District, Shenzhen, China Equipment: Product Type: Model Number: Docking station **SA02005** We, Shenzhen Inateck Technology Co., Ltd. d...

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