

ICY BOX IB-2817MCL-C31

ICY BOX IB-2817MCL-C31 Dual NVMe SSD Enclosure with Cloning Function User Manual

Model: IB-2817MCL-C31 | Brand: ICY BOX

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ICY BOX IB-2817MCL-C31 Dual NVMe SSD Enclosure. This device allows for the use of two NVMe SSDs as external storage via USB Type-C or Type-A, and features an offline cloning function for direct drive duplication without a computer.

Please read this manual carefully before using the product to ensure proper functionality and to prevent damage.

2. PACKAGE CONTENTS

- ICY BOX IB-2817MCL-C31 Enclosure
- USB Type-C to Type-C Cable
- USB Type-C to Type-A Cable
- Power Adapter
- Screwdriver and screws for SSD installation
- Thermal pads
- User Manual (this document)

3. PRODUCT OVERVIEW

Familiarize yourself with the components and ports of the enclosure.



Figure 1: Front view of the ICY BOX IB-2817MCL-C31 enclosure, showing the Clone button, Power input, Type-C data port, and the Online/Clone switch.

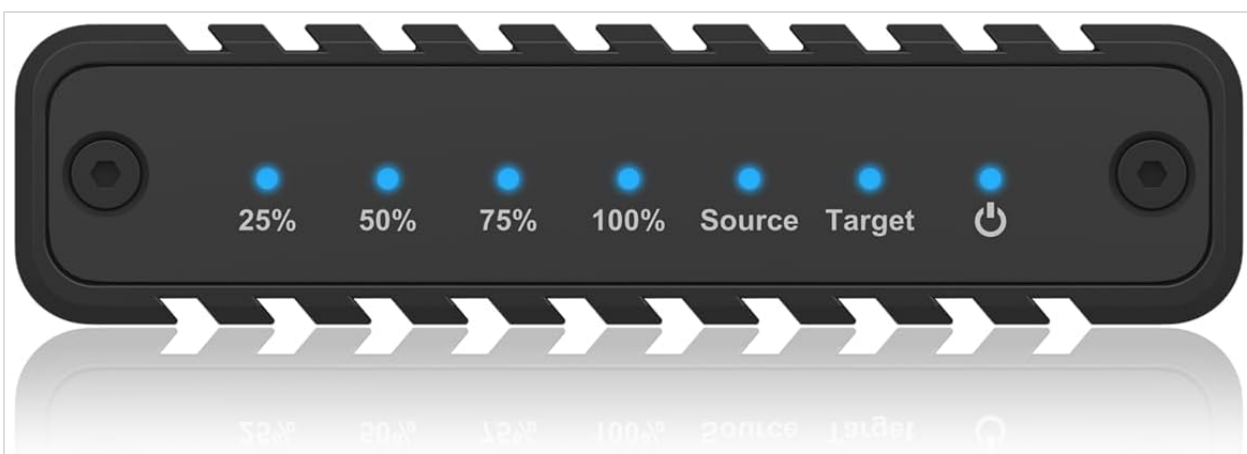


Figure 2: Close-up of the LED indicators on the ICY BOX IB-2817MCL-C31, showing 25%, 50%, 75%, 100% progress, Source, Target, and Power status lights.

- **Clone Button:** Initiates the offline cloning process.
- **Power Input:** USB-C port for connecting the external power adapter.

- **Type-C Data Port:** USB-C port for connecting to a computer for online mode.
- **Online/Clone Switch:** Toggles between online (external enclosure) and offline (cloning) modes.
- **LED Indicators:** Display cloning progress (25%, 50%, 75%, 100%), Source/Target drive status, and power status.

4. SETUP AND INSTALLATION

Follow these steps to install your NVMe SSDs into the enclosure.

1. **Open the Enclosure:** Use the provided screwdriver to carefully remove the screw securing the top cover of the enclosure. Gently lift and remove the cover.

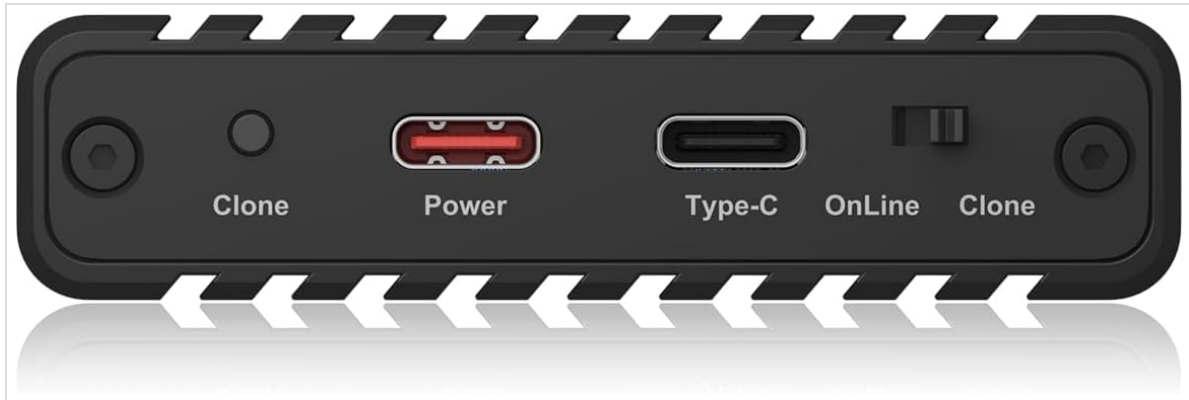


Figure 3: Exploded view illustrating the removal of the top cover and insertion of two NVMe SSDs into the enclosure.

2. **Install NVMe SSDs:** Insert your NVMe SSDs into the designated slots. Ensure they are fully seated. Secure them with the provided rubber holders or screws, depending on the design.
3. **Apply Thermal Pads:** Place the included thermal pads onto the NVMe SSDs. These pads help dissipate heat to the enclosure's metal casing.
4. **Close the Enclosure:** Carefully place the top cover back onto the enclosure, aligning it properly. Secure it with the screw removed in step 1.
5. **Connect Power:** Connect the external power adapter to the Power input port on the enclosure.
6. **Connect to Computer (for Online Mode):** Use the provided USB Type-C to Type-C or Type-C to Type-A cable to connect the enclosure's Type-C data port to your computer.

5. OPERATING MODES

5.1. Online Mode (External Enclosure)

In Online Mode, the enclosure functions as an external dual NVMe SSD drive, accessible by your computer.

1. Ensure NVMe SSDs are installed as per Section 4.
2. Connect the external power adapter to the enclosure.
3. Set the **Online/Clone** switch to **Online**.
4. Connect the enclosure to your computer using the appropriate USB cable (Type-C to Type-C or Type-C to Type-A).
5. Your computer should detect the installed NVMe SSDs as external storage devices. You may need to initialize and format new SSDs through your operating system's disk management utility before use.

5.2. Offline Cloning Mode

The offline cloning function allows you to duplicate the contents of a source NVMe SSD to a target NVMe SSD

without requiring a computer connection.

Important Considerations for Cloning:

- The **target SSD must be equal to or larger in capacity** than the source SSD. If the target SSD is smaller, cloning will fail.
- All data on the target SSD will be overwritten during the cloning process. Ensure you have backed up any important data from the target SSD before proceeding.
- Ensure both SSDs are healthy and free from errors for a successful clone.

Cloning Procedure:

1. Ensure NVMe SSDs are installed as per Section 4.
2. Insert the **Source SSD** into the designated Source slot and the **Target SSD** into the designated Target slot.
3. Connect the external power adapter to the enclosure's Power input port. **Do not connect the enclosure to a computer.**
4. Set the **Online/Clone** switch to **Clone**.
5. Press and hold the **Clone button** for approximately 5 seconds until the LED indicators (25%, 50%, 75%, 100%, Source, Target, Power) illuminate.
6. Briefly press the **Clone button** again (within 5 seconds of the lights illuminating) to start the cloning process.
7. The LED indicators will show the cloning progress (25%, 50%, 75%, 100%). The Source and Target LEDs will remain lit during the process.
8. Once cloning is complete, all LED indicators will remain steadily lit.
9. Disconnect the power adapter and remove the SSDs.

A 512 GB drive to a 2 TB drive clone may take approximately 20 minutes, depending on the drive speed and data volume.

6. MAINTENANCE

To ensure the longevity and optimal performance of your ICY BOX enclosure:

- Keep the enclosure clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.
- The enclosure's aluminum casing and thermal pads are designed for heat dissipation. Ensure proper airflow around the device during operation, especially during cloning or heavy data transfer.
- Do not attempt to open the enclosure beyond what is necessary for SSD installation, as this may void the warranty.

7. TROUBLESHOOTING

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

- **Device not detected by computer:**
 - Ensure the **Online/Clone** switch is set to **Online**.
 - Verify all USB cables are securely connected to both the enclosure and the computer.
 - Try a different USB port on your computer.
 - Ensure the external power adapter is connected and providing power.
 - Check if the NVMe SSDs are properly seated in their slots.

- For new SSDs, ensure they are initialized and formatted in your operating system's disk management.
- **Cloning process fails or does not start:**
 - Ensure the **Online/Clone** switch is set to **Clone**.
 - Verify the external power adapter is connected and providing power.
 - **Crucially, ensure the target SSD's capacity is equal to or larger than the source SSD's capacity.**
 - Ensure the enclosure is **not** connected to a computer during offline cloning.
 - Confirm both Source and Target SSDs are properly installed and functional.
 - Follow the cloning procedure steps precisely, especially the timing for pressing the Clone button.
- **Slow data transfer speeds:**
 - Ensure you are using a USB 3.1 Gen 2 (10 Gbps) compatible port on your computer and the provided cables.
 - Check the performance of your NVMe SSDs.

8. SPECIFICATIONS

Feature	Detail
Model Number	IB-2817MCL-C31
Brand	ICY BOX
Hard Disk Interface	NVMe (M.2)
Connectivity Technology	USB 3.1 Gen 2 (USB-C)
Read Speed	Up to 10 Gigabits Per Second
Compatible Devices	NVMe M.2 SSDs
Installation Type	External Hard Drive Enclosure
Special Feature	Offline Cloning Function, Portable
Color	Black
Item Weight	11.3 ounces (approx. 320 grams)
Package Dimensions	8.74 x 4.09 x 1.61 inches

9. WARRANTY AND SUPPORT

ICY BOX products are designed for reliability and performance. This product comes with a standard manufacturer's warranty. Please refer to the warranty card included with your purchase or visit the official ICY BOX website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact ICY BOX customer service through their official website: www.icybox.de. Have your model number (IB-2817MCL-C31) and proof of purchase ready when contacting support.

Related Documents - IB-2817MCL-C31

 <p>Manual IB-289-C3 USB Type-C® enclosure with keypad encryption Handbuch IB-289-C3 USB Type-C® Gehäuse mit Tastaturschlüsselung</p>	<p>ICY BOX IB-289-C3 Manual: USB Type-C Enclosure with Keypad Encryption</p> <p>Comprehensive manual for the ICY BOX IB-289-C3, a USB Type-C external enclosure featuring keypad encryption, AES hardware encryption, and toolless drive installation. Includes safety instructions, setup guide, and LED descriptions.</p>
 <p>Manual IB-180MC-C31 DockingStation for M.2 NVMe & SATA SSD Handbuch IB-180MC-C31 DockingStation für M.2 NVMe & SATA SSD</p>	<p>ICY BOX IB-180MC-C31 M.2 NVMe & SATA SSD Docking Station User Manual</p> <p>Comprehensive user manual for the ICY BOX IB-180MC-C31 docking station. Learn about safety, package contents, system requirements, key features, installation, and usage for M.2 NVMe and SATA SSDs via USB 3.2 Gen 2 Type-C.</p>
 <p>ICY BOX IB-1920M-C42 M.2 NVMe enclosure with USB4® technology</p>	<p>ICY BOX IB-1920M-C42 M.2 NVMe Enclosure with USB4® Technology</p> <p>Explore the ICY BOX IB-1920M-C42, a toolless M.2 NVMe SSD enclosure featuring high-speed USB4® technology for up to 40 Gbit/s data transfer. Its durable aluminum design ensures efficient heat dissipation for optimal performance.</p>
 <p>IB-2913MCL-C31</p>	<p>ICY BOX IB-2913MCL-C31: M.2 NVMe & SATA SSD/HDD Clone & Docking Station Guide</p> <p>Explore the ICY BOX IB-2913MCL-C31, a versatile docking station and cloning device supporting M.2 NVMe, M.2 SATA SSD/HDD, and 2.5"/3.5" SATA HDD. Learn about its features and usage.</p>
 <p>IB-2914MSCL-C31</p>	<p>ICY BOX IB-2914MSCL-C31 Docking and CloneStation User Manual</p> <p>Comprehensive guide for the ICY BOX IB-2914MSCL-C31, a versatile docking and cloning station supporting 2.5"/3.5" SATA drives and M.2 NVMe SSDs with USB 3.2 connectivity.</p>
 <p>IB-AC640-C3</p>	<p>ICY BOX IB-AC640-C3 External Enclosure User Manual</p> <p>User manual for the ICY BOX IB-AC640-C3 external enclosure, detailing its features, contents, and setup for ultra-slim SATA drives.</p>

[\[pdf\]](#) User Manual Instructions Specifications Diagram

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COVER 1x I B - 2 817 M C L - C 31 CloneStation for 2x M.2 NVMe SSD 1x 1x 3x 2x
1x 1x 1 3 2 BACK Legacy USB standards USB 3.0 = USB 3.1 Gen 1 USB 3.1 = USB
3.1 Gen 2 USB 3.2 Gen 2x2 - Current USB standards Data transfer rate = USB 3.2
Gen 1 = 5 Gbit/s = USB 3.2 Gen 2 = 10 Gbi...

lang:en score:29 filesize: 1.36 M page_count: 2 document date: 2023-07-14

