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DockCase US-10S

DOCKCASE Visual Smart M.2 NVMe SSD Enclosure User Manual

Model: US-10S | Brand: DockCase

1. PRODUCT OVERVIEW

The DOCKCASE Visual Smart M.2 NVMe SSD Enclosure is designed to provide high-speed data transfer and robust data protection for M.2 NVMe SSDs. It features a unique HD screen that displays real-time SSD status, including health, lifespan, power cycles, and remaining capacity. With support for 10Gbps data transfer and 10-second Power Loss Protection (PLP), this enclosure ensures both performance and data integrity.



Image: The DOCKCASE Visual Smart M.2 NVMe SSD Enclosure, showcasing its sleek design and the integrated display, alongside its accompanying USB-C cables.

2. KEY FEATURES

- **Visual Smart Screen:** Detects and displays SSD status (health, lifespan, power cycles, remaining capacity) upon power-on.
- **10-Second Power Loss Protection (PLP):** Provides approximately 5 seconds of writing time after power failure to prevent data loss and disk damage.

- **10 Gbps High-Speed Transfer:** Utilizes Realtek RTL9210 control chip and USB 3.1 Gen 2 Type-C interface, supporting UASP acceleration protocol for speeds up to 10Gbps.
- **Dual Heat Dissipation:** Features smart temperature control and a graphite thermal pad for efficient heat dissipation, extending SSD lifespan.
- **Wide Compatibility:** Supports NVMe PCIe M.2 SSDs of sizes 2230, 2242, 2260, 2280, and M-Key/B+M Key UASP, up to 2TB capacity.

Innovation Visual Smart Screen

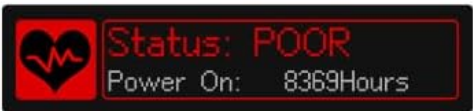
The hard disk working information can be displayed in real time



5S Protection Progress Bar



SSD Detailed Information



Support SSD Life Predict



USB working status

Image: The enclosure's innovative visual smart screen, showing detailed SSD information and status indicators.

10 Seconds Power Loss Protection

Protecting data during unexpected power outages



PLP Working Principle:

Hardware PLP(10s) is designed with the primary goal of reducing data loss by using onboard supercapacitors (EDLC) to sustain power to the SSD long enough for data that resides in the SSD's cache buffer to be written to Flash memory and its mapping tables updated.

Image: A visual representation of the 10-second power loss protection in action, indicating data protection during unexpected power outages.

3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- DOCKCASE Visual Smart M.2 NVMe SSD Enclosure
- USB-C to USB-C Cable

- USB-C to USB-A Adapter
- Screwdriver
- Spare Screws
- Thermal Pad

4. SETUP GUIDE

Installing an M.2 NVMe SSD

Follow these steps to install your M.2 NVMe SSD into the enclosure:

1. Loosen the screw on the back cover of the enclosure.
2. Gently slide and fully insert your M.2 NVMe SSD into the PCB slot at an angle of 30 degrees.
3. Tighten the screw to secure the SSD in place.
4. Replace and tighten the screw on the back cover to close the enclosure.

Installation



Image: Step-by-step instructions for SSD installation, from loosening the cover to securing the drive.

5. OPERATING INSTRUCTIONS

Display Functions

The integrated HD screen provides various information and navigation options:

- **Double Click Side Button:** Rotates the display by 90 degrees.
- **Long Press Side Button:** Switches between different information pages (SSD Info, About Me, Monitor).
- **Short Press Side Button (Function Pages):** Returns to the main page or switches options within the 'About Me' page.
- **Long Press for 3 Seconds (Function Pages):** Applies or modifies options indicated by the cursor.



Image: A detailed view of the enclosure's display, showing real-time monitoring of SSD temperature, status, and other vital statistics.

Data Transfer

Connect the enclosure to your computer using the provided USB-C cable. The enclosure supports up to 10Gbps transfer speeds, making it suitable for large file transfers, running applications, or backing up data.

10Gbps High-speed Data Transfer



Transfer Page :

The transfer rate can be read in real time

Image: The enclosure connected to a laptop, demonstrating its capability for high-speed data transfer at 10Gbps.

Power Loss Protection (PLP)

The built-in 10-second PLP feature uses onboard supercapacitors to sustain power to the SSD, allowing data in the SSD's cache buffer to be written to flash memory and mapping tables updated in case of sudden power loss. This minimizes the risk of data corruption.

Up to 10Gbps Transfer Speed



10Gbps

Image: The enclosure displaying its Power Loss Protection status, indicating when it's charging and actively protecting data.

Auxiliary Power Supply

For SSDs that require more power than a standard USB port can provide, the enclosure supports an optional 15W auxiliary power supply. This prevents performance issues or boot failures due to insufficient power.

15W Auxiliary Power Supply



Some SSDs may require more power than the computer's USB port can handle, which may result in the SSD experiencing performance issues or not booting properly.



By connecting the 15W auxiliary power supply, this situation can be avoided

Image: A comparison showing the enclosure's performance with and without the 15W auxiliary power supply, highlighting improved stability with external power.

Read-Only Mode

The enclosure supports a read-only mode to protect sensitive data from accidental changes or malicious software. This feature ensures data integrity when you only need to access information without modifying it.

Recommended SSD
(Not a Complete list)

Samsung	970 EVO, 970 EVO Plus, 970 PRO, 980 PRO, 990 PRO, PM961, PM981, PM981a, PM9A1, SM951, SM961	ADATA	egend 840, SE900G, XPG Gammix S11 Pro, XPG Gammix S50, XPG Gammix S70 Blade, XPG SX8200 Pro
WD (Western Digital)	PC SN530, PC SN720, PC SN730, SN550, SN570, SN750	Gigabyte	Gen4 7000s Premium, Gen4 7000s, Gen4 7300, Gen4 SSD (v2)
Kioxia (Toshiba)	BG3, BG4, XG7, Exceria / RC10, Exceria G2 / RC20, Exceria Plus / RD20, Exceria Pro / SE10	Sabrent	Rocket 4 Plus, Rocket 4 Plus-G, Rocket 4.0 (no heatsink), Rocket Q4 (no heatsink)
Kingston	A2000, FURY Renegade, KC2000, KC2500, KC3000	Teamgroup	Cardea A440, Cardea A440 Pro(no Heatsink), Cardea Ceramic C440, Cardea Z440 TUF Gaming Alliance, Cardea Z44Q, Cardea Zero Z440, T-Create Classic PCIe 4.0
HikVision	C4000, C4000ECO, CC700, FUTURE	Addlink	A90, A92, A93, A95, S70, S90, S90 Lite, S95
SK hynix	BC711, P44 Pro	Lexar	ARES, NM710, NM790, NM800, NM800 Pro
Asgard	AN4+, AN4	Corsair	MP600 PRO, MP600 Pro NH
Silicon Power	US70, XS70		

Image: A user accessing data from the enclosure in read-only mode, indicated by a lock icon on the display.

6. MAINTENANCE

Heat Dissipation

The DOCKCASE enclosure is designed with dual heat dissipation mechanisms, including aluminum alloy fins and a graphite thermal pad. These components work together to maximize heat dissipation and airflow, which helps reduce SSD temperature by up to 20% and ensures stable performance and extended lifespan for your SSD.



Read-Only Mode

Protect Sensitive Data from Changes



Image: An exploded diagram illustrating the aluminum alloy fins and graphite thermal pad, key components for effective heat dissipation.

General Care

To ensure the longevity and optimal performance of your enclosure, keep it clean and free from dust. Use a soft, dry cloth for cleaning. Avoid exposing the device to extreme temperatures, humidity, or direct sunlight. Handle with care to prevent physical damage.

7. TROUBLESHOOTING

Common Issues

- **SSD Not Detected or Performance Issues:** Ensure the SSD is fully seated and secured. If using a high-power SSD, connect an auxiliary 15W power supply to prevent power insufficiency from the host USB port.
- **Display Not Working:** Check the USB connection. Ensure the enclosure is receiving sufficient power.
- **Slow Transfer Speeds:** Verify that your host device's USB port supports USB 3.2 Gen 2 (10Gbps). Ensure the cable is properly connected. For Linux systems, disabling UASP might be necessary for some configurations, though this may halve throughput.
- **Enclosure Feels Warm:** This is normal during operation, especially during heavy data transfer, due to efficient heat dissipation. The design actively moves heat away from the SSD.

Host Power Insufficiency Alert

Ensure Stable and Swift Data

Transmission with Timely Power Supply



Power shortage



After auxiliary power



Image: The enclosure connected to a laptop, displaying a 'Host Power Insufficiency Alert' and suggesting auxiliary power for stable data transmission.

8. SPECIFICATIONS

Feature	Detail
Model Number	US-10S
Memory Storage Capacity	Up to 2 TB (Supports up to 4TB as per A+ content)
Compatible Devices	Laptop, PC, Mac, Linux
Hard Disk Form Factor	M.2 (2230/2242/2260/2280)
Data Transfer Rate	10 Gigabits Per Second (USB 3.2 Gen 2)
Hardware Interface	USB Type-C
Material	Aluminum
Product Dimensions	5 x 1.5 x 0.55 inches
Item Weight	3.53 ounces (100 Grams)

Compatibility

The enclosure is compatible with NVMe PCIe M.2 SSDs of various sizes (2230, 2242, 2260, 2280) and supports M-Key and B+M Key interfaces. It is not compatible with B-Key (NGFF/SATA) M.2 SSDs.

Compatible With M.2 NVme SSD

Supports capacity up to 4TB

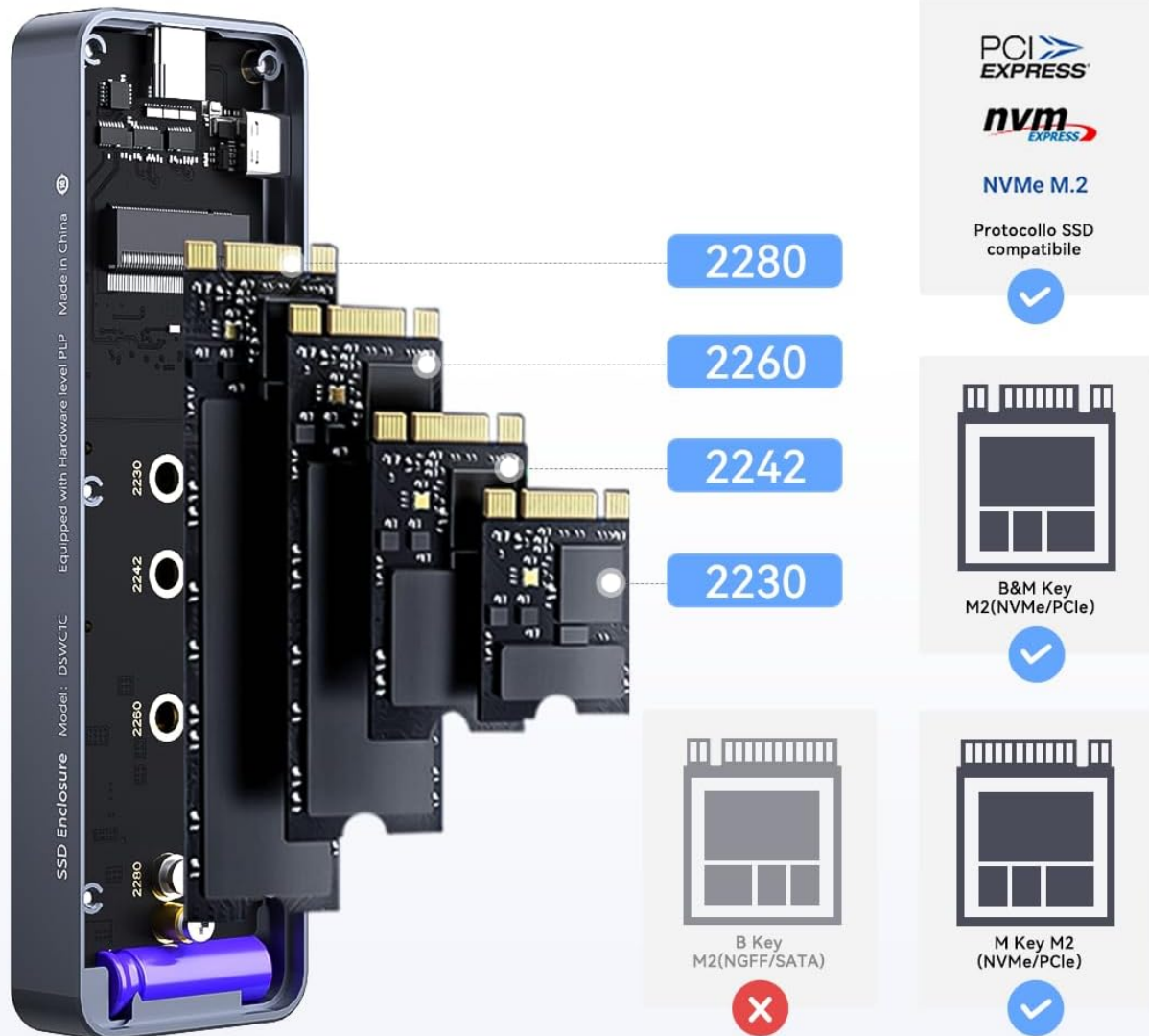


Image: A visual guide to compatible M.2 NVMe SSD sizes (2230, 2242, 2260, 2280) and supported M-Key and B+M Key interfaces.

Recommended SSDs (Not a complete list):



Image: A partial list of SSD brands and models that are recommended for use with the DOCKCASE enclosure.

Not Recommended SSDs:



Image: A partial list of SSD brands and models that are not recommended for use with the DOCKCASE enclosure.

9. WARRANTY AND SUPPORT

DOCKCASE provides 12-months product support after purchase. For any inquiries or assistance, please contact our customer service team.

Customer Service: amazon@dockcase.com

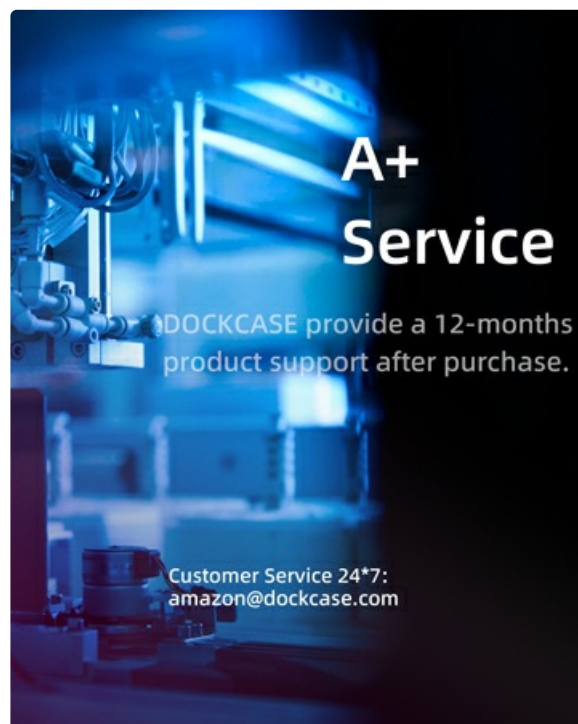


Image: Information regarding DOCKCASE's customer service and 12-month product support.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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