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ORICO AP42F

ORICO AP42F Magnetic M.2 NVMe SSD Enclosure with SD/TF Card Reader and PD100W Charging Port

User Manual

INTRODUCTION

Thank you for choosing the ORICO AP42F Magnetic M.2 NVMe SSD Enclosure. This device is designed to expand your storage capabilities and enhance data transfer efficiency across various devices, including iPhones, iPads, MacBooks, Android phones, laptops, and tablets. It features high-speed data transmission, an integrated SD/TF card reader, and PD100W charging support, making it an ideal solution for professionals and enthusiasts requiring portable and robust data management.

SAFETY INFORMATION

- Keep the device away from water, fire, and high temperatures.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to disassemble or modify the device. Unauthorized modifications may void the warranty and pose safety risks.
- Use only compatible M.2 NVMe SSDs (2230/2242 M Key) and power adapters.
- Ensure proper ventilation during operation to prevent overheating.

PACKAGE CONTENTS

Please verify that all items are present in your package:

- Magnetic M.2 NVMe 2230/2242 SSD Enclosure
- 0.3m USB-C to USB-C Cable (10Gbps)
- Magnetic Ring
- Thermal Pad
- Screws
- Screwdriver
- User Manual



Figure 1: Package Contents

The image above illustrates the components included in your ORICO AP42F package. Ensure all items are accounted for before proceeding with setup.

PRODUCT OVERVIEW

The ORICO AP42F enclosure integrates an M.2 NVMe SSD slot, TF/SD card reader slots, and a PD100W charging port into a compact, magnetic design. Below is a diagram highlighting its key features:

Portable Magnetic TF/SD Card Reader & M.2 SSD Enclosure

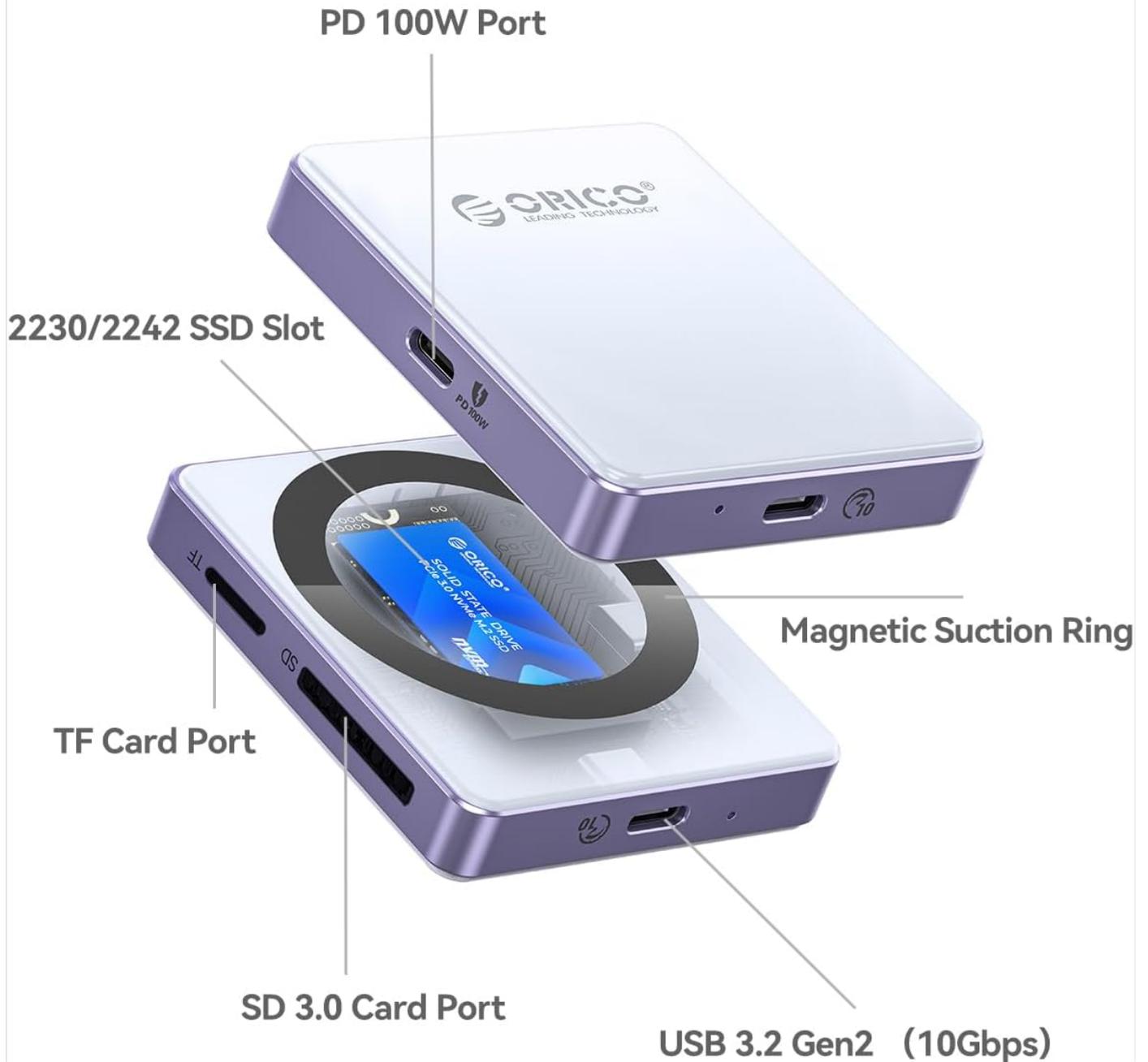


Figure 2: Product Component Diagram

This diagram identifies the various ports and features of the ORICO AP42F, including the PD 100W charging port, the M.2 SSD slot for 2230/2242 NVMe drives, the magnetic suction ring for secure attachment, and dedicated slots for TF and SD 3.0 cards, alongside the main USB 3.2 Gen2 (10Gbps) data port.

SETUP

1. Installing the M.2 NVMe SSD

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

1. **Open the Enclosure:** Unscrew and remove the bottom cover of the enclosure.
2. **Install the Hard Drive:** Insert your M.2 NVMe SSD (2230 or 2242, M Key only) into the slot at a 30-degree angle. Gently push down and secure it with the provided screw.
3. **Apply Thermal Pad:** Place the thermal pad on top of the installed SSD to aid in heat dissipation.
4. **Complete Installation:** Close the bottom cover and tighten the screws to secure it.



Figure 3: SSD Installation Steps

The image above provides a visual guide for installing the M.2 NVMe SSD, ensuring correct placement and secure fastening within the enclosure.

2. Attaching the Magnetic Ring (Optional)

For devices without built-in magnetic attachment, use the included magnetic ring for secure mounting:

- Clean the back surface of your device or phone case.
- Peel off the adhesive backing from the magnetic ring.
- Carefully align and press the magnetic ring onto the desired location on your device or case. Ensure it is centered and firmly attached.
- Allow the adhesive to set for a few hours before attaching the enclosure.

PD 100W Fast Charging

Transfer data and charge devices simultaneously—full power during operation dual solution



*Eliminates storage & battery anxiety



Figure 4: Magnetic Attachment Options

This image demonstrates how the enclosure magnetically attaches to a compatible phone and how the included magnetic ring can be used to enable magnetic attachment on other devices or cases.

OPERATING INSTRUCTIONS

1. Connecting to Devices

Connect the ORICO AP42F to your device using the provided USB-C to USB-C cable. The enclosure is compatible with a wide range of devices and operating systems.

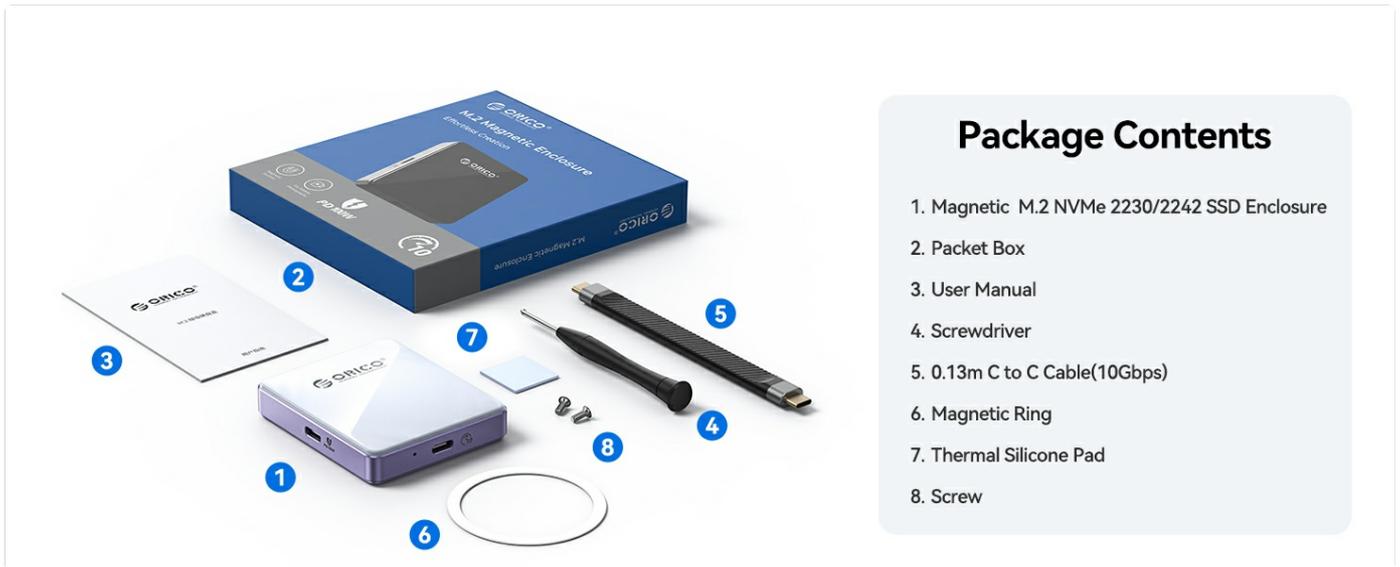


Figure 5: Broad Device and System Compatibility

The image above highlights the broad compatibility of the ORICO AP42F with various devices and operating systems, including Mac OS, iOS, Windows, Linux, and Android.

2. 4K ProRes Direct Recording (iPhone 15/16/17 Pro/Pro Max Series)

The enclosure supports direct 4K ProRes video recording to the installed M.2 NVMe SSD, eliminating phone storage limitations.

- Connect the ORICO AP42F to your compatible iPhone (15/16/17 Pro/Pro Max series).
- Ensure the SSD is properly installed and recognized by your iPhone.
- Open your iPhone's camera application and select ProRes video recording mode.
- Record directly to the external SSD.

Note: ProRes HDR 4K/120fps requires iPhone 16/17 Pro/Pro Max; 4K/60fps supports iPhone 15/16/17 Pro/Pro Max.

ProRes 4K 120fps Recording & Direct Save

Support for iPhone ProRes 4K 60/120fps – save directly to drive



Note: ProRes HDR 4K/120fps instant recording & saving (iPhone 16 17 Pro/Pro Max only)
ProRes HDR 4K/60fps instant recording & saving (iPhone 15/16/17 Pro/Pro Max)*

Figure 6: iPhone 4K ProRes Recording

This image demonstrates an iPhone recording 4K ProRes video directly to the ORICO AP42F enclosure, highlighting its capability to save high-resolution video files externally.

3. Using the SD/TF Card Reader

The integrated SD/TF card slots allow for high-speed data transfer from memory cards.

- Insert your SD or TF (MicroSD) card into the corresponding slot on the enclosure.
- Connect the enclosure to your computer or compatible mobile device.
- Access the card's contents through your device's file manager.

Note: Supports UHS-II SD, SDHC, SDXC, Micro SD, Micro SDHC, and Micro SDXC cards with read speeds up to 104MB/s.

Fast SD 3.0 Up to 104MB/s TF/SD Card Reader

Read: 104MB/s MAX Write: 80MB/s MAX

104MB/s

500%↑

SD 3.0	104MB/s
SD 2.0	20MB/s

Figure 7: High-Speed SD/TF Card Reading

The image above illustrates the high-speed data transfer capability of the integrated SD/TF card reader, showing a read speed of up to 104MB/s when connected to a laptop.

4. High-Speed Data Transfer (10Gbps)

Leverage USB 3.2 Gen2 technology for rapid file transfers.

- Connect the enclosure to your device using the USB-C cable.
- Drag and drop files between your device and the SSD or memory cards.
- Experience transfer speeds up to 10Gbps (1000MB/s).

10Gbps High-Speed Transmission with SSD

USB3.2 Gen2, transfer 1GB in 1 second

1000M/s

			
80GB/81s	20GB/22s	10GB/10.5s	5GB/5.6s
one 3A game	one 4K Ultra HD movie	1000 high-quality songs	1000 JPG images

Test data from ORICO Lab. Actual performance may vary by device

Figure 8: 10Gbps High-Speed Transmission

This image visually represents the 10Gbps high-speed data transmission capability of the ORICO AP42F, showing a 1GB file transfer in approximately 1 second.

5. PD100W Charging

The PD100W charging port allows for simultaneous data transfer and device charging.

- Connect a PD-compatible power adapter to the PD100W port on the enclosure.
- Connect the enclosure to your device.
- Your device will charge while data transfer operations are in progress.

Note: The enclosure supports up to 100W PD power input and provides up to 85W output for charging connected devices. This device is not a magnetic battery and does not support magnetic charging.

PD 100W Fast Charging



IN 

 **100W**

Supports up to 100W PD power supply

OUT 

 **85W**

Supports up to 85W PD charging

Note: This device is not a magnetic battery and does not support magnetic charging.

Figure 9: PD 100W Fast Charging

The image above illustrates the PD 100W fast charging feature, showing how the enclosure can charge a connected iPhone while simultaneously handling data operations.

6. Saving Files to iPhone/Android

Follow these general steps to save files from the enclosure to your mobile device:

For iPhone (iOS 15/16/17 Series):

1. Connect the enclosure to your iPhone.
2. Select the photos or videos you wish to save.
3. Click "Save to Files".
4. Click "Browse".
5. Select "AP42F" (or the recognized drive name).
6. Click "Save".

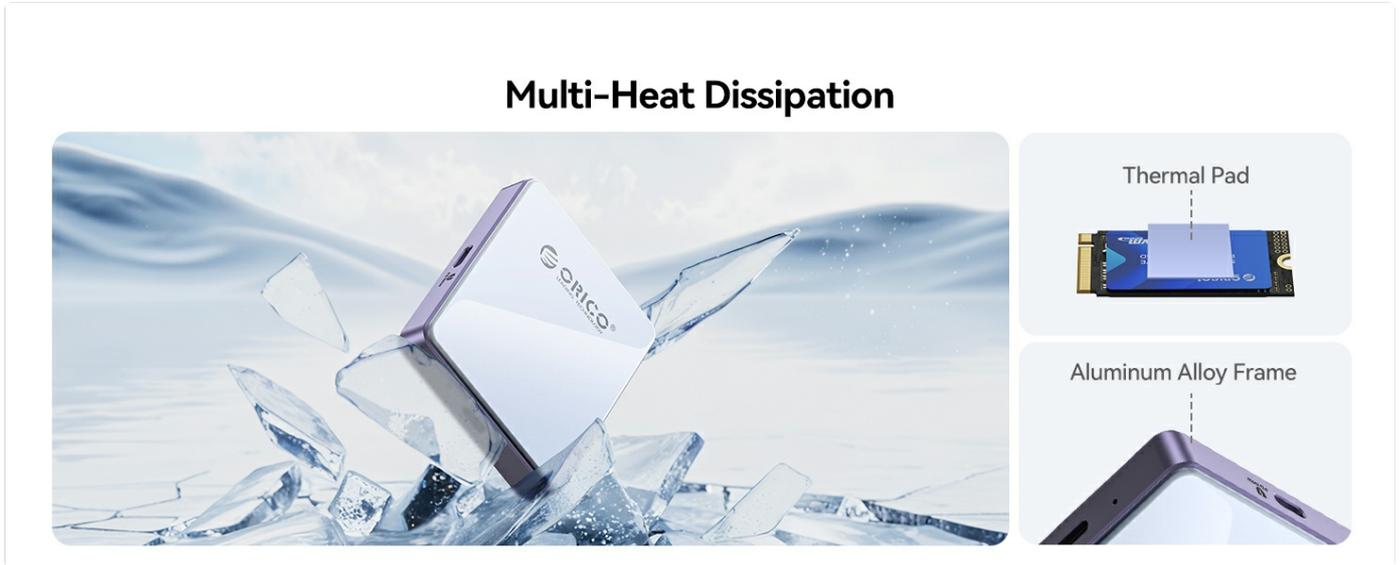


Figure 10: Saving Files to iPhone

This image provides a step-by-step visual guide for transferring and saving files from the ORICO AP42F to a compatible iPhone.

For Android Phones:

1. Connect the enclosure to your Android phone.
2. Click "Files" (or open your file manager app).
3. Click "Images" (or navigate to the desired file type).
4. Select the photos or videos you wish to copy.
5. Click "AP42F" (or the recognized drive name).
6. Click the checkmark to confirm saving.

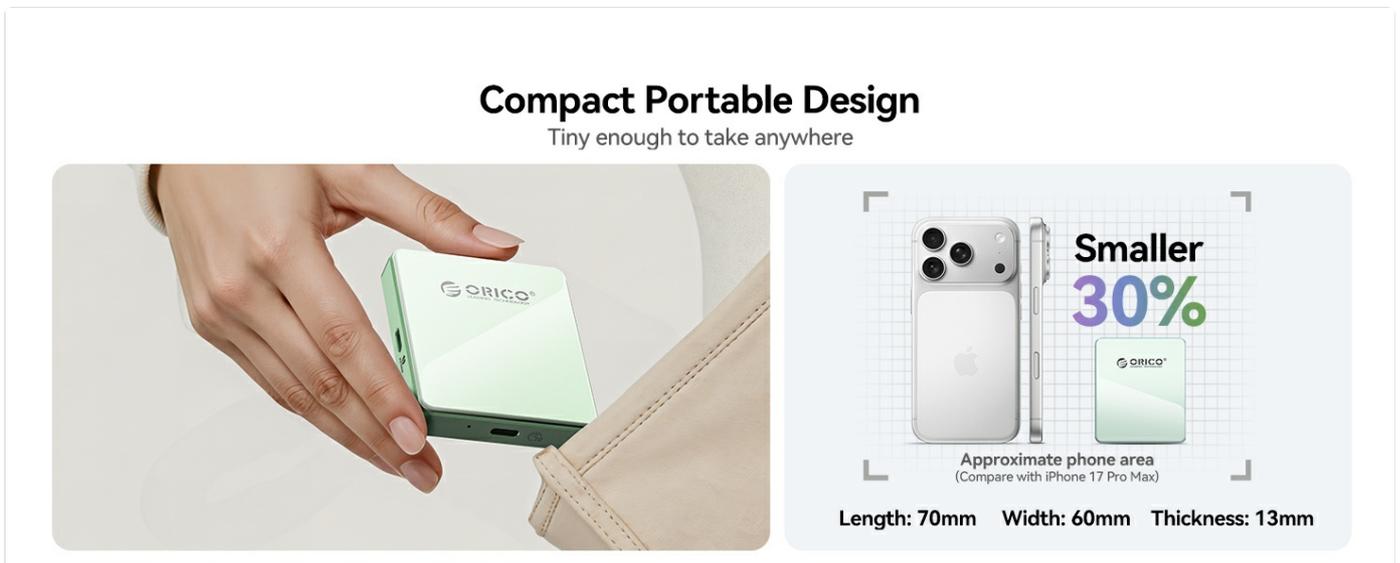


Figure 11: Saving Files to Android Phone

This image provides a step-by-step visual guide for transferring and saving files from the ORICO AP42F to a compatible Android phone.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the enclosure. Avoid liquid cleaners or abrasive materials.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Thermal Management:** The enclosure features an aluminum alloy frame and thermal pad for multi-heat dissipation. Ensure the device is not covered during heavy use to allow for proper cooling.

Multi-Heat Dissipation

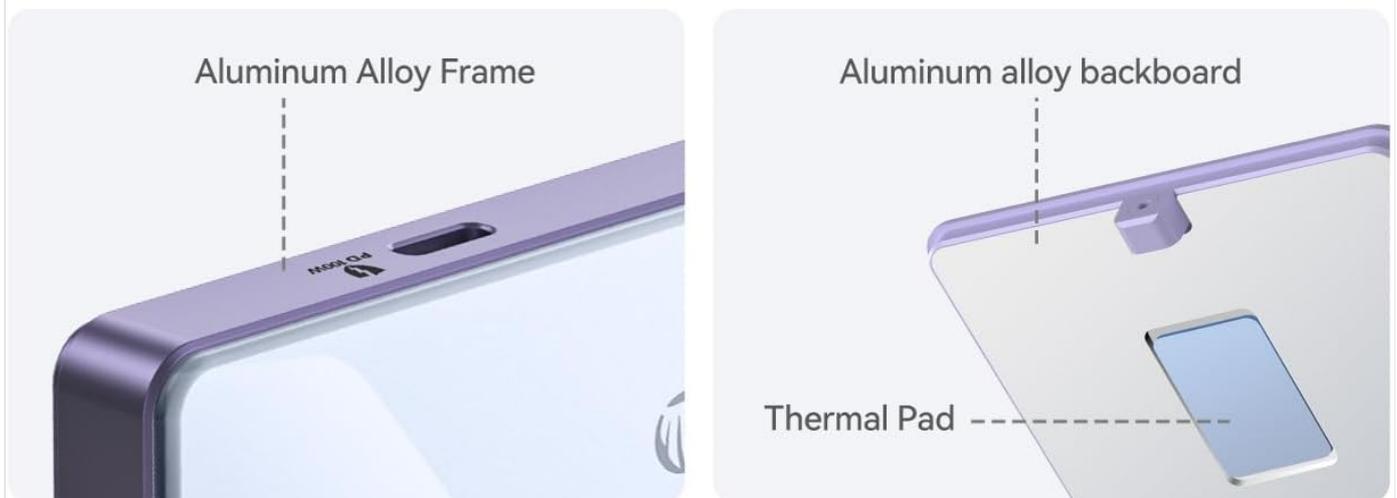


Figure 12: Multi-Heat Dissipation

The image above highlights the thermal design of the ORICO AP42F, showcasing its aluminum alloy frame and thermal pad which contribute to efficient heat dissipation during operation.

TROUBLESHOOTING

- **Device Not Recognized:**
 - Ensure the USB-C cable is securely connected to both the enclosure and your device.

- Try connecting to a different USB-C port or device.
 - Verify that the M.2 NVMe SSD is correctly installed and secured within the enclosure.
 - For phones, ensure the phone's USB port power limitations are not exceeded. If using a high-power SSD, connect an external power supply via the PD port.
- **Slow Transfer Speeds:**
 - Ensure you are using the provided USB 3.2 Gen2 cable and connecting to a compatible USB 3.2 Gen2 port on your host device.
 - Check the health and speed rating of your M.2 NVMe SSD and SD/TF cards.
 - Close any background applications that might be consuming system resources.
 - **Disconnections During Recording:**
 - This can occur if the SSD power draw exceeds the phone's USB port power limit. Connect an external power supply to the PD port to ensure stable power delivery.
 - **Enclosure Gets Warm:**
 - It is normal for the enclosure to warm up during high-speed data transfer or prolonged use, especially with NVMe SSDs. The aluminum design aids in heat dissipation. If it becomes excessively hot, ensure adequate ventilation and consider reducing workload.
 - **SD/TF Card Not Reading:**
 - Ensure the card is fully inserted into the correct slot.
 - Check if the card is damaged or corrupted. Try another card if possible.
 - Verify card compatibility (UHS-II SD, SDHC, SDXC, Micro SD, Micro SDHC, Micro SDXC).

SPECIFICATIONS

Feature	Detail
Model Number	AP42F
Product Dimensions	2 x 2 x 0.5 inches (5.08 x 5.08 x 1.27 cm)
Item Weight	4.6 ounces (130 grams)
Compatible SSDs	M.2 NVMe (M Key) 2230/2242 SSDs (up to 2TB)
Data Interface	USB 3.2 Gen2 Type-C (10Gbps)
Card Reader	SD 3.0 (UHS-II compatible), TF 3.0 (MicroSD)
Card Reader Speed	Up to 104MB/s (Read)
Charging Port	PD100W (Input up to 100W, Output up to 85W)
Magnetic Attachment	17 built-in magnets
Compatible Devices	iPhone 15/16/17 Pro/Pro Max series, iPad Pro, MacBook, Android phones, laptops, tablets with Type-C port
Compatible Systems	Mac OS, iOS, Windows, Linux, Android

Feature	Detail
Material	Aluminum Alloy Frame

OFFICIAL PRODUCT VIDEOS

Video 1: Magnetic NVMe SSD Enclosure AP42

This video provides a quick overview of the ORICO AP42F Magnetic NVMe SSD Enclosure, demonstrating its key features such as SSD installation, magnetic attachment to an iPhone for 4K ProRes recording, and compatibility with various devices for high-speed data transfer.

WARRANTY AND SUPPORT

ORICO products come with a standard manufacturer's warranty. For detailed warranty information, please refer to the warranty card included in your package or visit the official ORICO website. If you encounter any issues or require technical assistance, please contact ORICO customer support through their official channels. Please have your model number (AP42F) and purchase details ready when contacting support.