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SSK SD450

SSK 128GB Portable SSD (Model SD450) User Manual

Model: SD450

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your SSK 128GB Portable SSD, Model SD450. Please read this manual thoroughly before using the device to ensure proper functionality and to maximize its lifespan. This portable solid-state drive is designed for high-speed data transfer and reliable storage across various devices and operating systems.

2. WHAT'S IN THE Box

- 128GB External SSD (SSK SD450)
- USB 3.2 Gen2 USB-C to USB-C Cable
- USB-A Adapter

3. SETUP AND CONNECTION

The SSK Portable SSD is designed for plug-and-play functionality. Follow these steps to connect your device:

1. **Identify the correct cable:** Use the provided USB-C to USB-C cable for devices with a USB-C port. For devices with a standard USB-A port, attach the included USB-A adapter to the USB-C end of the cable.
2. **Connect to your device:** Plug the appropriate end of the cable into the SSK Portable SSD and the other end into your computer, smartphone, or tablet.
3. **Device Recognition:** The SSD should be automatically recognized by your operating system (Windows, macOS, Android, Linux, iOS). An LED indicator on the SSD will light up to show activity.

The Power Of Lightness

External Storage on the Go



Figure 3.1: Universal Compatibility - The SSK Portable SSD connected to a laptop, illustrating its compatibility with various devices and operating systems like Windows, Mac, iOS, Linux, and Android.

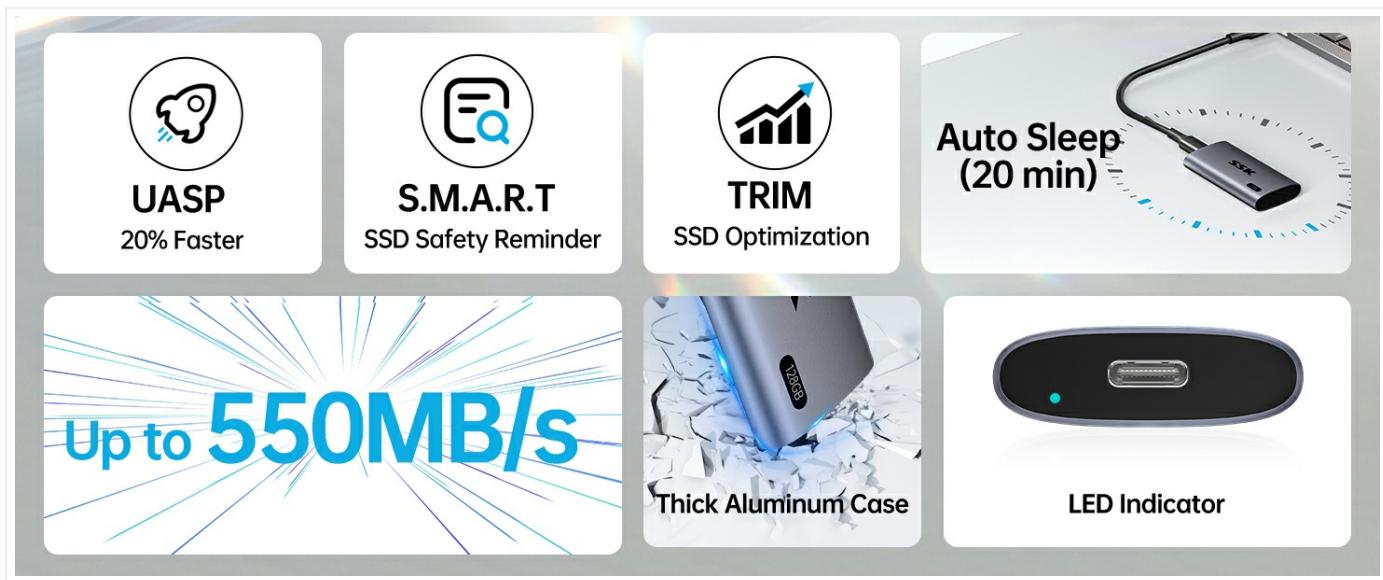


Figure 3.2: Mobile Personal Storage - The SSK Portable SSD connected to a smartphone, demonstrating its use for expanding mobile storage and freeing up phone space. The image shows a file management interface on the phone.

4. OPERATING INSTRUCTIONS

Once connected, the SSK Portable SSD functions like any other external storage device. You can drag and drop files, copy and paste, or use your device's file management system to transfer data.

4.1 Data Transfer

The SSD supports USB 3.2 Gen2, offering data transfer speeds up to 550MB/s. Actual speeds may vary based on the host device, operating system, and application used.



Figure 4.1: Efficient Transmission - A laptop screen displaying file transfer operations, indicating the high read and write speeds of the SSK Portable SSD.

4.2 OTG Functionality

The portable SSD supports On-The-Go (OTG) function, allowing direct connection to compatible mobile devices such as smartphones and tablets for seamless file transfers. Power consumption is less than 5 Watts. **Note:** Only newer iPhones with USB-C ports are supported. Older Lightning models are not compatible.

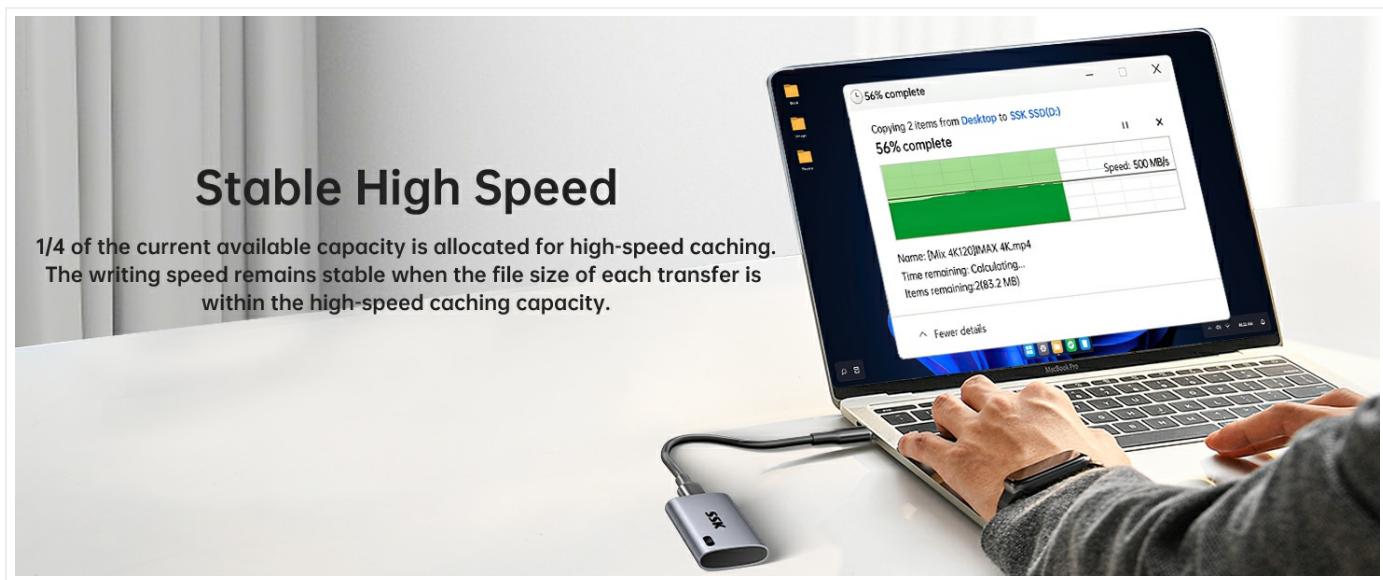


Figure 4.2: OTG Supported - A smartphone connected to the SSK Portable SSD, demonstrating its use for direct video recording (e.g., ProRes HDR) to the external drive, indicating low power consumption for mobile devices.

4.3 LED Indicator

The integrated LED light indicates the portable SSD's activity status. A blinking light typically signifies data transfer, while a solid light indicates the device is connected and idle.

5. DATA SECURITY AND PERFORMANCE FEATURES

The SSK Portable SSD incorporates advanced features to ensure data integrity and optimal performance.

- **S.M.A.R.T. Monitoring:** Self-Monitoring, Analysis, and Reporting Technology (S.M.A.R.T.) allows you to monitor the health of the external solid-state drive, providing early warnings of potential issues.
- **TRIM Technology:** TRIM ensures consistent write speeds and extends the longevity of the portable SSD by actively managing data blocks.
- **SLC Caching:** To prevent slowdowns during large file transfers, the SSD utilizes high-speed SLC caching. Approximately 25% of the current available capacity is allocated for this cache, maintaining steady 6Gbps performance.
- **Auto Sleep:** The device features an auto-sleep function, typically after 20 minutes of inactivity, to conserve power and extend device life.

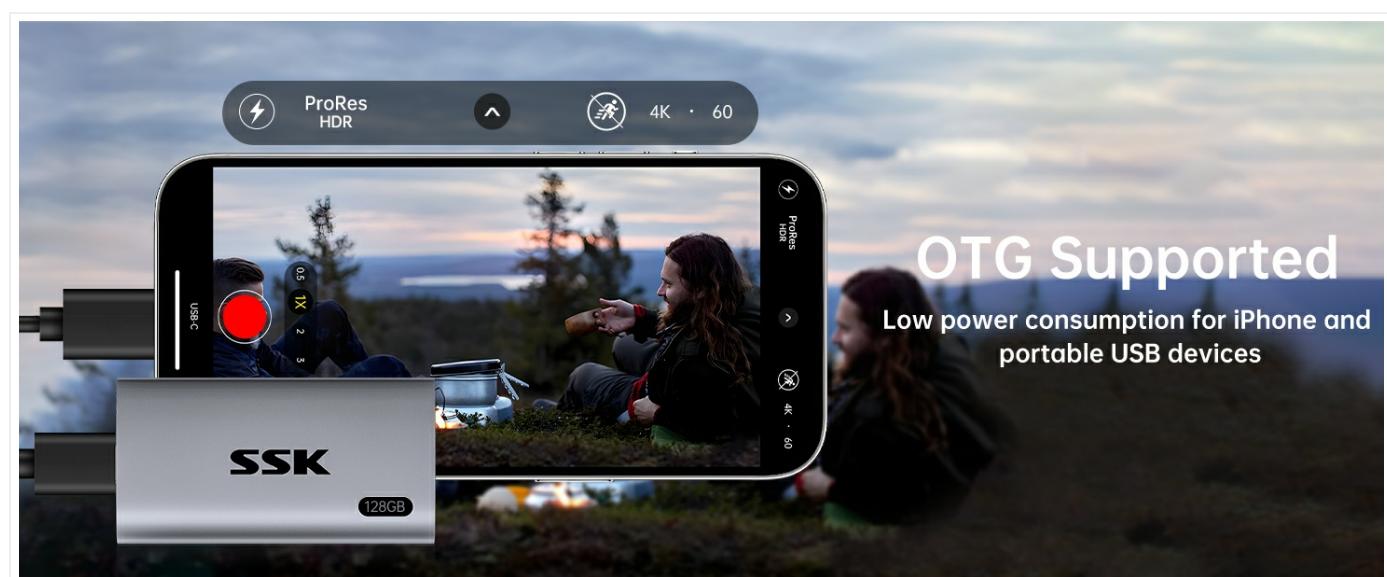


Figure 5.1: Safe Storage Master - An illustration highlighting key features like UASP (20% Faster), S.M.A.R.T. (SSD Safety Reminder), TRIM (SSD Optimization), and 20 Min Auto Sleep, ensuring data security and efficient performance.



Figure 5.2: Stable High Speed - A laptop screen displaying a file transfer progress bar, emphasizing that the SSD maintains stable high speeds due to SLC caching, even during large file transfers.

6. EFFICIENT HEAT DISSIPATION

The SSK Portable SSD features a thick aluminum alloy case, which provides superior heat dissipation. This design ensures reliable performance without concerns of overheating, even during extended use or large data transfers.



Figure 6.1: Efficient Heat Dissipation - An image showing the internal components of the SSK Portable SSD and a graph comparing its temperature performance against other devices, highlighting its effective cooling.

7. SPECIFICATIONS

Feature	Detail
Brand	SSK
Model Number	SD450

Feature	Detail
Digital Storage Capacity	128 GB
Hard Disk Interface	Serial ATA-600
Connectivity Technology	USB 3.2 Gen2 (6Gbps)
Read Speed	Up to 550MB/s
Special Features	LED Light, OTG Function, Portable, S.M.A.R.T., TRIM Support
Compatible Devices	Camera, Desktop, Laptop, Smartphone, Tablet
Hardware Platform	Linux, Mac, PC
Color	Space Gray
Item Weight	1.52 ounces (approx. 43g)
Product Dimensions (LxWxH)	2.5 x 1.3 x 0.4 inches

8. TROUBLESHOOTING

If you encounter issues with your SSK Portable SSD, consider the following common solutions:

- **Device Not Recognized:**

- Ensure the cable is securely connected to both the SSD and your host device.
- Try a different USB port on your device.
- Test with a different cable if available.
- Restart your computer or mobile device.
- For Windows, check Disk Management to see if the drive appears but needs to be initialized or assigned a drive letter.
- For macOS, check Disk Utility.

- **Slow Transfer Speeds:**

- Ensure your host device's USB port supports USB 3.2 Gen2 (or at least USB 3.0/3.1). Older USB 2.0 ports will result in significantly slower speeds.
- Verify that the files being transferred are not excessively small or numerous, as this can impact overall transfer rates.
- Close other applications that might be using system resources or the USB port.

- **Capacity Display Differences:**

- Note that the displayed capacity of a 128GB SSD may appear as approximately 116GB on Windows. This is due to differences in how 1GB is calculated (1024MB on Windows vs. 1000MB on SSDs). macOS typically shows the full 128GB. This is normal and not an indication of a defect.

- **Overheating Concerns:**

- The aluminum alloy case is designed for efficient heat dissipation. If the device feels warm during heavy use, this is normal. If it becomes excessively hot and performance degrades, ensure it is in a well-ventilated area and not covered.

9. PRODUCT VIDEO

Your browser does not support the video tag.

Video 9.1: SSK SSD External Hard Drive Portable SSD Up to 550MB/s. This video demonstrates the compact size, USB 3.2 Gen2 interface, and plug-

and-play functionality of the SSK Portable SSD, including its use for freeing up phone storage and showcasing data transfer speeds.

10. WARRANTY AND SUPPORT

This product is covered by a standard return policy, typically 30 days for refunds or replacements. For specific warranty details, technical support, or further assistance, please refer to the manufacturer's official website or contact SSK customer service directly. Keep your purchase receipt for warranty claims.

