

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [SSK](#) /
- › [SSK SD450 512GB Portable External SSD User Manual](#)

SSK SD450

SSK SD450 512GB Portable External SSD User Manual

Model: SD450

INTRODUCTION

Thank you for choosing the SSK SD450 Portable External SSD. This device provides high-speed, reliable external storage for various devices, including computers, smartphones, and tablets. Its compact design and robust features ensure your data is accessible and secure on the go.



Image: The SSK SD450 512GB Portable External SSD, showcasing its compact design.

WHAT'S IN THE BOX

- 512GB External SSD (SSK SD450)
- USB 3.2 Gen2 Type-C to Type-C Cable
- USB-A Adapter

KEY FEATURES

- **High-Speed Performance:** Up to 550MB/s read and write speeds with USB 3.2 Gen2 interface.
- **Universal Compatibility:** Works with Windows, Mac, Android, and iOS (USB-C enabled iPhones).
- **Data Security:** Features S.M.A.R.T. monitoring and TRIM technology for drive health and longevity.
- **Efficient Heat Dissipation:** Thick aluminum alloy casing ensures reliable performance without overheating.

- **Portable Design:** Lightweight (43g) and compact (2.5 x 1.3 x 0.4 inches) for easy transport.
- **OTG Functionality:** Supports On-The-Go connectivity for mobile devices with low power consumption.
- **LED Indicator:** Provides visual feedback on device activity.

SETUP

Connecting the SSD

1. Identify the appropriate 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 to USB-C cable.
2. Connect the cable: Plug one end of the cable into the SSK SD450 SSD and the other end into your host device (computer, smartphone, or tablet).
3. Verify connection: The LED indicator on the SSD will light up, indicating a successful connection and activity.

Universal Compatibility

Cross-Device Transfer & Backup between MacBook, Windows, Tablets and Smartphones

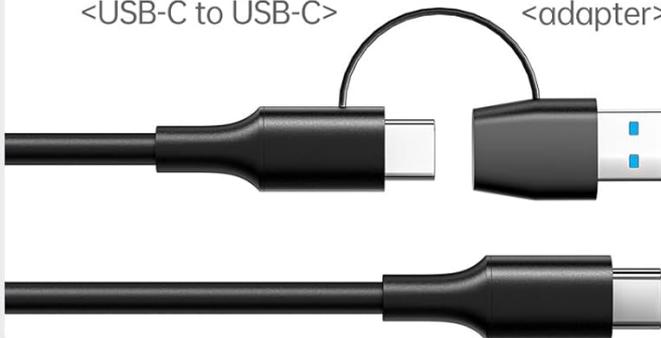
<Laptop>



USB-C 3.2/ 3.1/ 3.0/ 2.0

<USB-C to USB-C>

<adapter>



<Phone>



<TV Box>



<PC>



<Tablet>

Image: Diagram illustrating universal compatibility and connection options for the SSK SD450 SSD.

Initial Recognition and Formatting

Upon first connection, your operating system should automatically detect the SSK SD450. If prompted, you may need to

format the drive to a file system compatible with your operating system (e.g., NTFS for Windows, APFS/HFS+ for macOS, exFAT for cross-platform compatibility). Refer to your operating system's documentation for specific formatting instructions. **Note on Capacity Display:** The displayed capacity of the 512GB SSD may appear as approximately 465GB on Windows, while macOS typically shows the full 512GB. This difference is due to varying algorithms in how 1GB is calculated (1024MB on Windows vs. 1000MB on SSDs).

OPERATING INSTRUCTIONS

Data Transfer

To transfer files, simply drag and drop them to or from the SSK SD450 drive icon on your computer or use the file management application on your mobile device. The USB 3.2 Gen2 interface supports data transfer speeds up to 550MB/s, allowing for quick and efficient file management.

Efficient Transmission M.2 Solid State Drive Inside

Read up to **550MB/S** Write up to **500MB/S**



Image: Screenshot demonstrating efficient data transmission speeds of the SSK SD450 SSD on a laptop.

OTG Functionality (Mobile Devices)

The SSK SD450 supports OTG (On-The-Go) functionality, enabling direct connection to compatible smartphones and tablets for expanded storage and file access. This is particularly useful for newer iPhones with USB-C ports. Ensure your

mobile device supports OTG and has a USB-C port for direct connection.

Mobile Personal Storage

5W Ultra-low power consumption for phone OTG & Pad



Image: The SSK SD450 SSD connected to a smartphone, demonstrating its use for mobile personal storage.

LED Indicator

The integrated LED light on the SSD indicates its operational status. A steady light typically means the drive is connected and idle, while a blinking light signifies active data transfer or access.

Official Product Video

Your browser does not support the video tag.

Video: An official product video from SSK Direct demonstrating the SSK SSD External Hard Drive's features and up to 550MB/s transfer speeds.

MAINTENANCE

S.M.A.R.T. Monitoring and TRIM Support

The SSK SD450 supports S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) to monitor the drive's health

and potential issues. TRIM technology ensures consistent write speeds and extends the lifespan of the SSD by efficiently managing data blocks. Ensure your operating system has TRIM enabled for optimal performance.

Safe Storage Master



The image shows a silver SSK SD450 SSD with a black label that reads "SSK" and "512GB". The SSD is surrounded by four circular icons representing its features: a rocket for UASP, a document with a magnifying glass for S.M.A.R.T., a bar chart with an upward arrow for TRIM, and a gear for 20 Min Auto Sleep. The background features a collage of images including a city skyline, a person at a desk, a bar chart, and a smartphone screen.

512G

SSK

512GB

- UASP**
20% Faster
- S.M.A.R.T**
SSD Safety Reminder
- TRIM**
SSD Optimization
- 20 Min**
Auto Sleep

Image: Visual representation of SSK SD450 features including UASP, S.M.A.R.T., TRIM, and Auto Sleep for safe storage management.

Heat Dissipation

The SSD features a thick aluminum alloy case designed for superior heat dissipation, ensuring stable performance even during prolonged use or large file transfers. This design helps prevent performance degradation due to overheating.

Efficient Heat Dissipation

Thick Alloy Aluminum for **Robust Structure** and **Better Cooling**

Alloy Aluminum Shell

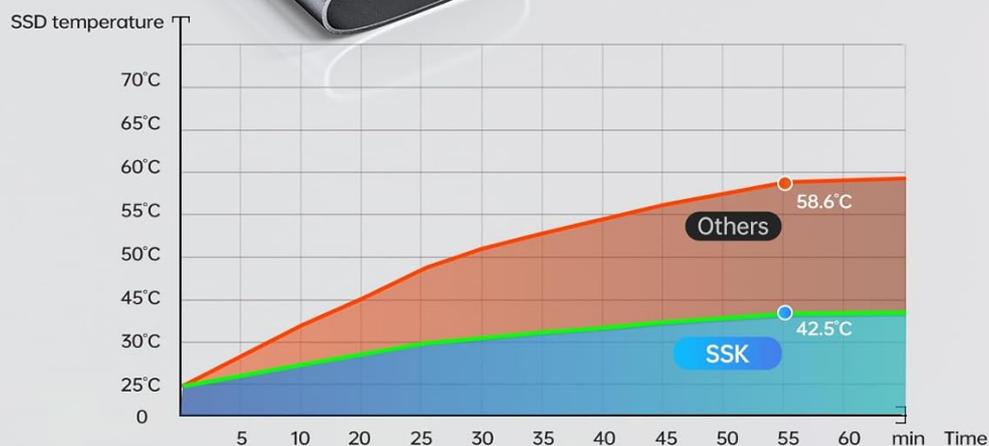


Image: Illustration showing the efficient heat dissipation of the SSK SD450 SSD's aluminum alloy shell compared to other drives.

Auto Sleep Function

The SSK SD450 is equipped with an auto-sleep function that activates after 20 minutes of inactivity, conserving power and extending the drive's lifespan.

Safe Removal

Always safely eject or unmount the SSD from your operating system before physically disconnecting it to prevent data corruption.

TROUBLESHOOTING

• SSD Not Recognized:

- Ensure the USB cable is securely connected to both the SSD and the host device.
- Try using a different USB port on your device.
- Test with a different USB cable, as some user experiences indicate that the provided cable may occasionally be

faulty.

- Check your device's Disk Management (Windows) or Disk Utility (macOS) to see if the drive is detected but unformatted. Format if necessary.
- Restart your computer or mobile device.

- **Slow Transfer Speeds:**

- Ensure you are connected to a USB 3.2 Gen2 port (or higher) on your host device for optimal performance. Older USB 2.0 ports will result in significantly slower speeds.
- Verify that your operating system has TRIM enabled.
- Close any unnecessary applications running in the background that might be consuming system resources.
- Large file transfers may experience initial high speeds due to SLC caching, then stabilize. This is normal behavior.

- **Overheating:**

- While the aluminum casing is designed for efficient heat dissipation, ensure the drive is in a well-ventilated area during extended use.
- Avoid placing the drive on soft surfaces that might block airflow.

SPECIFICATIONS

Model Number	SD450
Digital Storage Capacity	512 GB
Hard Disk Interface	Serial ATA-600
Connectivity Technology	USB 3.2 Gen2
Read Speed	Up to 550 MB/s
Write Speed	Up to 500 MB/s (Actual speed depends on drive capacity, host device, OS and application)
Hardware Platform	Linux, Mac, PC
Compatible Devices	Camera, Desktop, Laptop, Smartphone, Tablet
Item Weight	2.82 ounces (approx. 80g)
Product Dimensions	2.5 x 1.3 x 0.4 inches (approx. 6.35 x 3.3 x 1.0 cm)
Color	Space Gray

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official SSK website or contact SSK customer service directly. Keep your purchase receipt for warranty claims.

SSK Official Website: www.ssk.cn