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SSK SD501

SSK SD501 2TB Portable External SSD User Manual

INTRODUCTION

This manual provides comprehensive instructions for the SSK SD501 2TB Portable External Solid State Drive. It covers product features, setup procedures, operational guidelines, maintenance tips, troubleshooting, and detailed specifications. Please read this manual thoroughly to ensure proper use and optimal performance of your device.

PRODUCT OVERVIEW

The SSK SD501 is a compact and high-performance external SSD designed for fast data transfer and reliable storage across various devices.

High-Speed Data Transfer

Experience rapid file access and editing with transfer speeds up to 2000 MB/s. This performance is achieved when connected to a USB 3.2 Gen2x2 compatible port. Actual speeds may vary based on system conditions, file sizes, and the number of files.



Image: Speed test results demonstrating the high read and write capabilities of the SSK SD501 SSD when utilizing a USB 3.2 Gen2x2 connection.



Image: A visual comparison highlighting the superior speed of USB 3.2 Gen2x2 (2000MB/s) compared to other USB and Thunderbolt standards.

Universal Compatibility

The SSD offers plug-and-play functionality across a wide range of USB-enabled devices, including computers, phones, gaming consoles, and tablets. For full speed, a USB 3.2 Gen2x2 compatible port is required; other ports, including Thunderbolt, will operate at a maximum of 10Gbps.



Plug-and-Play OTG

3.75W Low Power portable SSD enabling ProRes Recording for iPhone

1. Open "Setting"  > Camera > Format, Turn on "Apple ProRes"
2. Open "Camera" APP  , Turn on "ProRes" and start recording

Image: An illustration demonstrating the SSK SD501's ability to connect and share files across various platforms such as smartphones, computers, gaming devices, and tablets.

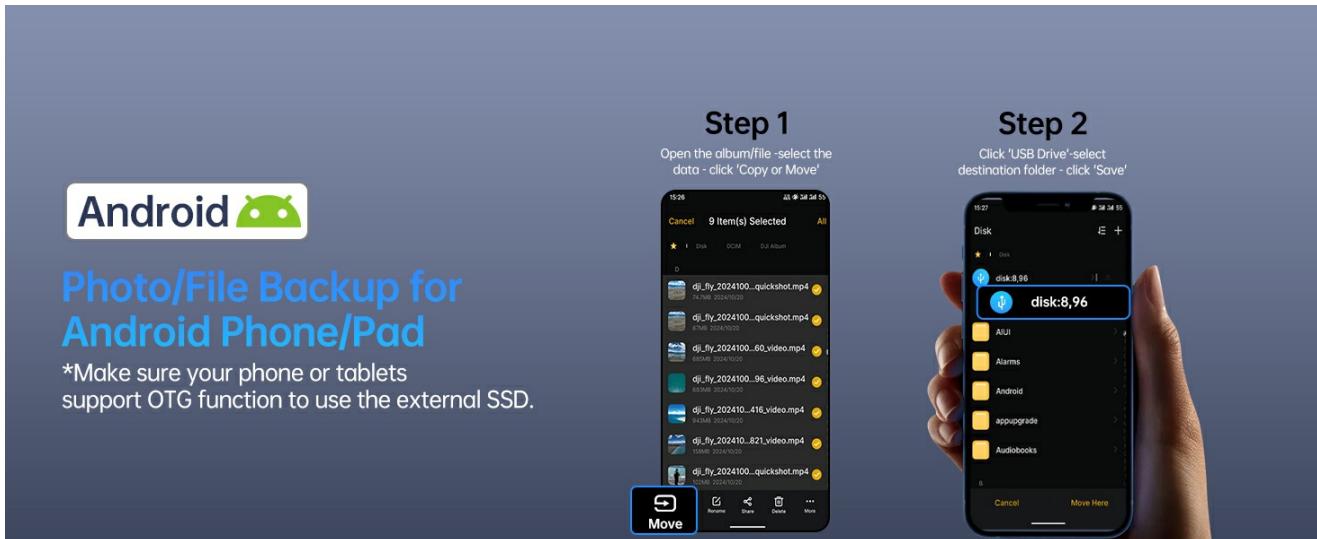


Image: Multiple scenarios depicting the SSK SD501 connected to different devices, including laptops, smartphones, gaming consoles, and iPads, to highlight its broad compatibility.

Data Security and Longevity

The external SSD incorporates S.M.A.R.T. health diagnostics and adaptive TRIM technology to optimize data block management, maintain peak write speeds, and extend the drive's lifespan.

Lightweight & Portable

Access working documents and
store treasured travel memories On The Go

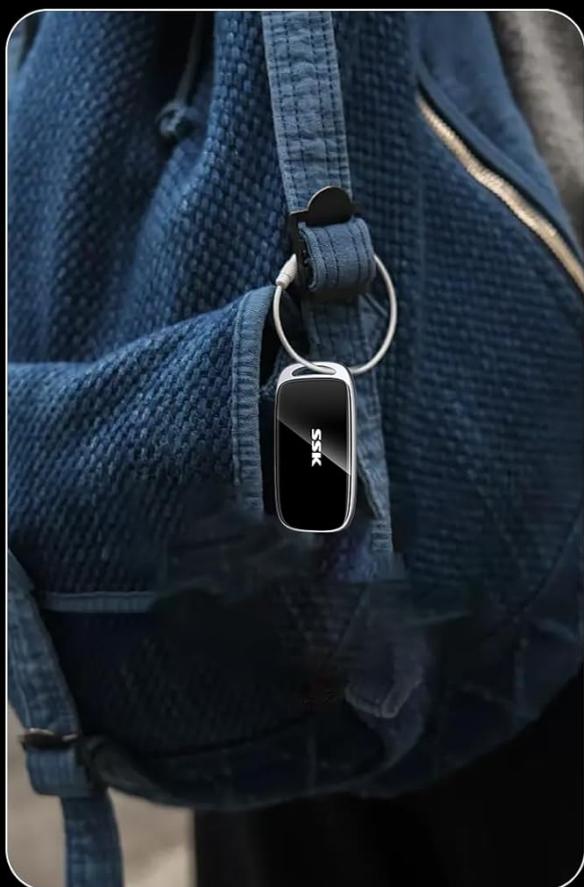


Image: An exploded view of the SSK SD501, illustrating its internal components and highlighting features like UASP for faster transfer, S.M.A.R.T. for health diagnostics, and TRIM for optimization.

Portable Design and LED Indicator

The SSK SD501 features a compact and lightweight design, making it easy to carry. A blue LED indicator displays real-time activity during data transfers, helping to prevent accidental disconnections and potential data loss. Always ensure safe ejection before unplugging the drive.

Portable External Solid State Drive

20Gbps **USB-C** cable and 10Gbps **USB-A** Cable included



USB-A TO USB-C



USB-C TO USB-C

Basic info

Protocol: USB, PCIE/NVME

TRIM Support: YES

S.M.A.R.T Support: YES

LED Indicator: Blue Light

Interface: USB3.2 GEN2X2

10Gbps USB-A Cable 0.2M

20Gbps USB-C Cable 0.2M

Performance

Mac Capacity: Full 2 TB

Win Capacity: 1862.89 GB (Binary)

CDM Test Speed: 2050MB/s

Large File Transfer: 1-1.2GB/S

Transfer Technology: SLC Cache

Material: Thick Metal+Plastic

Endurance: 1200TBW

Image: A visual representation of the SSK SD501's small size and its portability, including an example of it being used as a keychain accessory.

Optimized Heat Dissipation

The thick zinc alloy casing of the portable SSD is designed for 30% faster heat dissipation, ensuring reliable performance without concerns of overheating during extended use. Adaptive Thermal Balancing may reduce speed at high temperatures to protect the SSD.

iPhone ProRes Video Recording & OTG Support

The SSD supports OTG (On-The-Go) for direct connectivity with mobile devices, enabling iPhone ProRes video recording for professional-grade content creation. It operates with low power consumption (<5W).



Efficient File Management

20Gbps USB3.2 GEN2X2

Edit 4K Footage Directly from Drive & Streamline Workflows with Zero Compromise. Ensure your device support USB3.2 GEN2X2 to achieve the Max 20Gbps.

*To prevent damage, always perform a Secure Eject operation before unplugging the SSD.

Image: A user recording video with an iPhone connected to the SSK SD501 SSD, demonstrating its capability for iPhone ProRes 4K HDR recording.

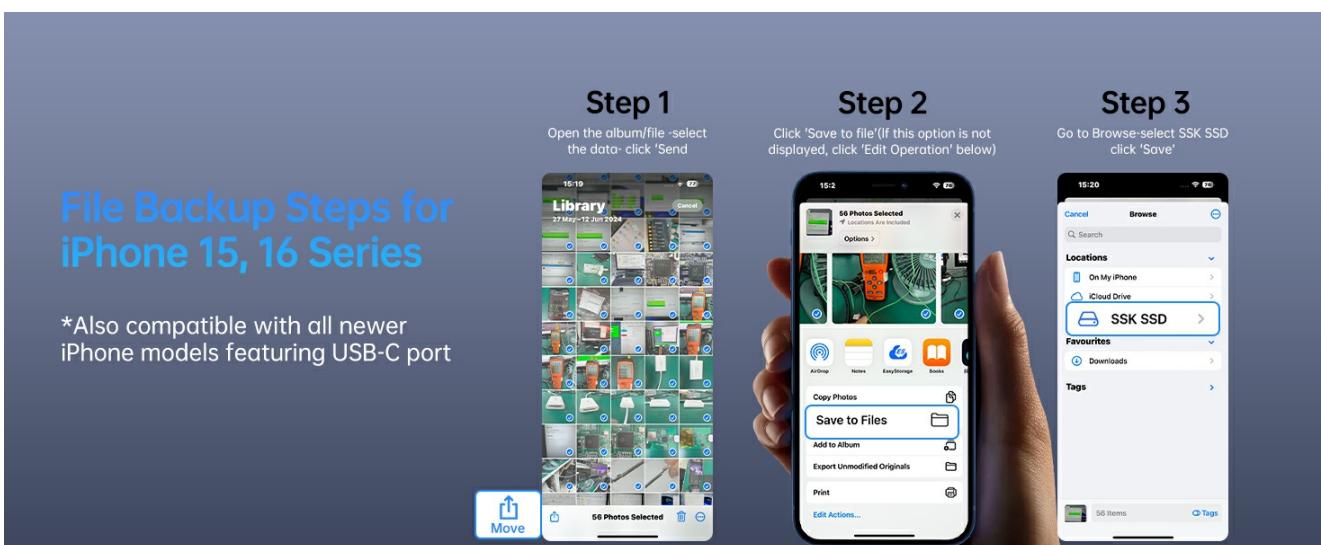


Image: An iPhone connected to the SSK SD501 SSD, capturing video of a skier, illustrating its use for professional-grade mobile video recording.

Your browser does not support the video tag.

Video: An overview of the SSK Portable SSD, showcasing its design and high-speed capabilities for various applications.

WHAT'S IN THE BOX

- SSK SD501 Portable External SSD
- 1 x 20Gbps USB-C to C cable
- 1 x 10Gbps USB-A to C cable

SETUP

Connecting to Devices

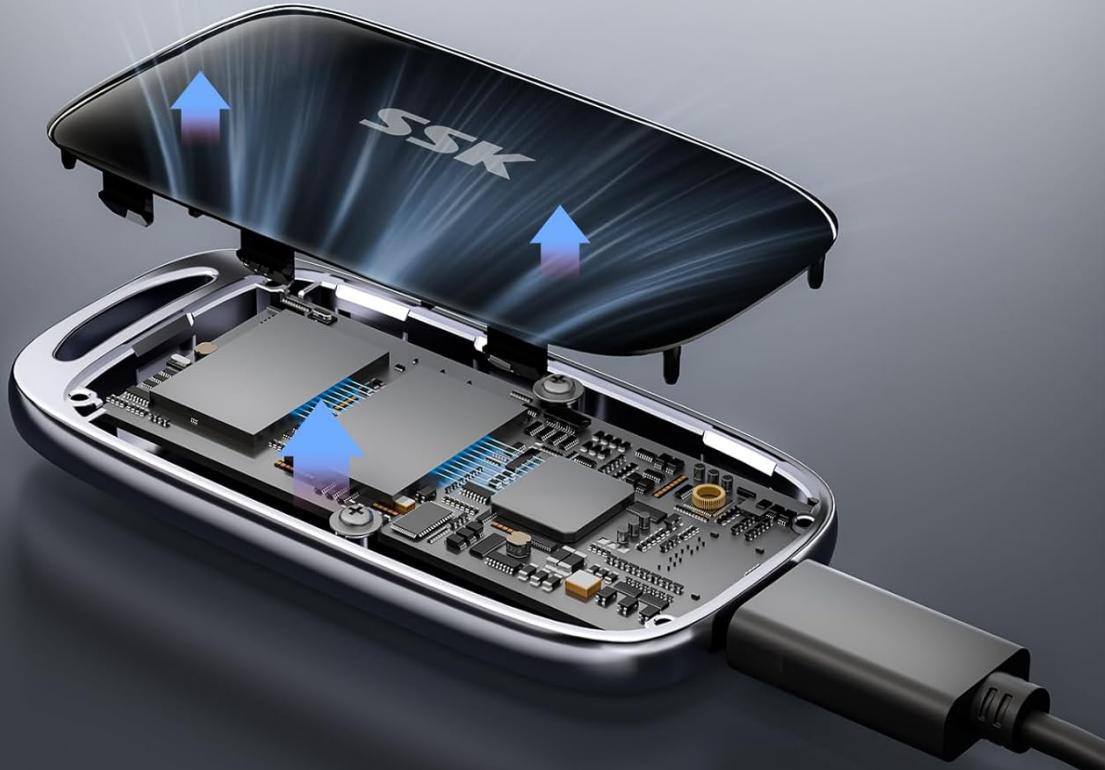
The SSK SD501 is designed for plug-and-play operation. No drivers are typically required for most operating systems.

1. Identify the appropriate cable: Use the USB-C to C cable for devices with a USB-C port (e.g., newer laptops, iPhone 15/16 series, some Android phones/tablets). Use the USB-A to C cable for devices with a standard USB-A port.
2. Connect the USB-C end of the cable to the SSK SD501.
3. Connect the other end of the cable (USB-C or USB-A) to your host device (computer, phone, tablet, etc.).
4. The blue LED indicator on the SSD will illuminate, indicating power. It will blink during data transfer activity.
5. The SSD should appear as an external drive in your device's file explorer or desktop.

Triple-Shielded Data Security

Heat Dissipation via Optimized Enclosure Ensures Core-Level Data Integrity

*Adaptive Thermal Balancing can lower the speed at high temperature to protect SSD



UASP

20% Faster

S.M.A.R.T

SSD Safety Reminder

TRIM

SSD Optimization

Image: A user connecting the SSK SD501 SSD to a laptop, illustrating the ease of setup for efficient file management.

OPERATING INSTRUCTIONS

File Transfer

Once connected, the SSK SD501 functions like any other external storage device. You can drag and drop files, copy and paste, or use your operating system's backup utilities.

- **Windows/macOS:** Open File Explorer (Windows) or Finder (macOS), locate the SSK SD501 drive, and transfer files as you normally would.
- **Mobile Devices (OTG):** For compatible smartphones and tablets, the SSD will appear in your device's file management application.

iPhone ProRes Recording (iPhone 15/16 Pro/Pro Max or newer)

To record ProRes video directly to your SSK SD501, follow these steps:

1. Connect the SSK SD501 to your iPhone using the USB-C to C cable.

2. On your iPhone, go to **Settings > Camera > Formats**.
3. Turn on **Apple ProRes**.
4. Open the **Camera** app.
5. Ensure ProRes is enabled in the camera interface and begin recording.

Universal compatibility

USB3.2 GEN2X2

Easy file managing, sharing and editing with both USB-C cable and USB-A cable

USB-C USB-A

For Laptop For Smartphone For Game devices For iPad

Image: Step-by-step visual guide on an iPhone screen demonstrating how to enable Apple ProRes recording to an external SSD.

File Backup for iPhone 15/16 Series (and newer USB-C iPhones)

To back up photos and files from your iPhone to the SSK SD501:

1. Connect the SSK SD501 to your iPhone.
2. Open the **Photos** app or other file management app. Select the desired photos/files and click 'Move' or 'Send'.
3. Click 'Save to File' (if this option is not displayed, click 'Edit Operation' below).
4. Go to Browse, select 'SSK SSD', and click 'Save' to transfer the files.

Universal compatibility

USB3.2 GEN2X2

Easy file managing, sharing and editing with both USB-C cable and USB-A cable

USB-C USB-A

For Laptop For Smartphone For Game devices For iPad

Image: A three-step visual guide on an iPhone screen detailing the process of backing up files to the SSK SD501 SSD.

Android OTG File Backup

For Android phones/tablets that support OTG functionality:

1. Connect the SSK SD501 to your Android device.
2. Open your device's file manager app. Navigate to the album/file you wish to back up, select it, and choose 'Copy' or 'Move'.

3. Select the SSK SD501 as the destination folder and click 'Save'.

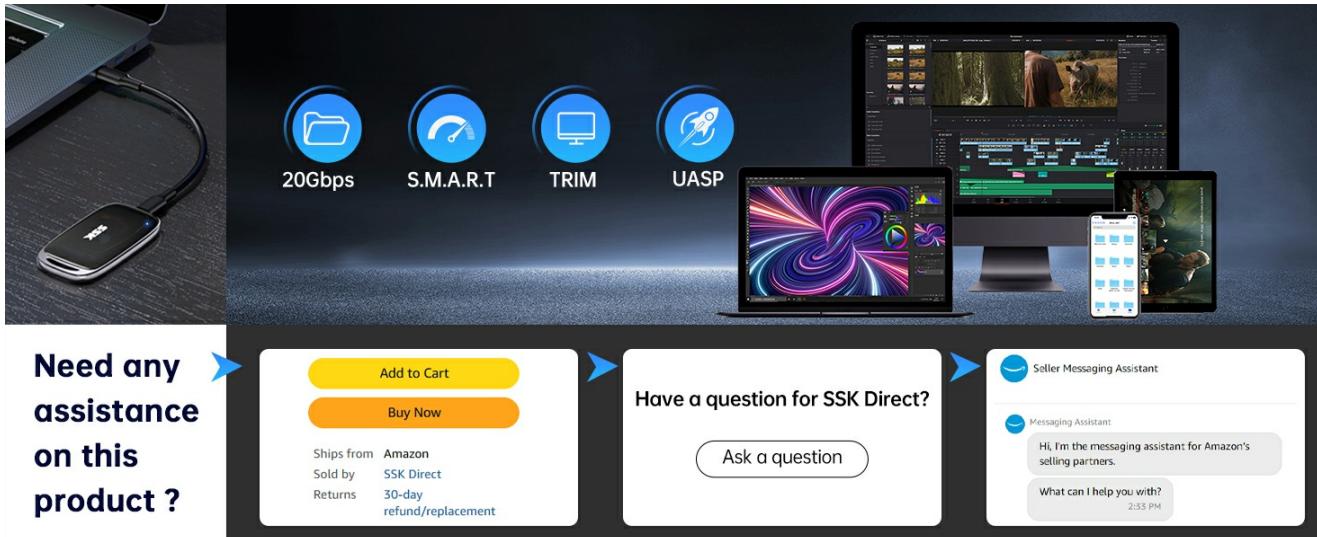


Image: A two-step visual guide on an Android phone screen demonstrating how to back up photos and files to the external SSD.

MAINTENANCE AND BEST PRACTICES

- **Safe Ejection:** Always perform a "Safe Eject" or "Safely Remove Hardware" operation on your computer before unplugging the SSD. Never unplug the drive during active data transfers to prevent data corruption or loss.
- **Heat Management:** While the zinc alloy case aids in heat dissipation, prolonged heavy use may cause the drive to become warm. This is normal. Ensure adequate airflow around the device if used for extended periods.
- **Firmware Updates:** Periodically check the SSK official website for any available firmware updates for your SD501 model to ensure optimal performance and compatibility.
- **Physical Care:** Avoid dropping the SSD or exposing it to extreme temperatures or moisture. Keep the ports clean and free of debris.

TROUBLESHOOTING

Issue	Possible Cause / Solution
SSD not recognized by device	<ul style="list-style-type: none"> • Ensure the cable is securely connected to both the SSD and the host device. • Try a different USB port on your device. • Try a different USB cable. • Restart your host device. • Check if your device's operating system requires specific drivers (unlikely for most modern OS).

Issue	Possible Cause / Solution
Slow transfer speeds	<ul style="list-style-type: none"> Ensure your host device's USB port supports USB 3.2 Gen2x2 for maximum speed. Older USB ports (e.g., USB 3.2 Gen1, USB 2.0) will result in lower speeds. Other ports, including Thunderbolt, may be capped at 10Gbps. Actual speeds vary with file sizes, system conditions, and the number of files. Transferring many small files is slower than one large file. Close other applications that might be using system resources.
Displayed capacity is less than advertised (e.g., 1862GB for 2TB on Windows)	This is due to algorithmic differences in how operating systems and manufacturers calculate storage capacity. 1GB is calculated as 1,024MB on Windows versus 1,000MB on SSDs. The full capacity is present.
SSD feels warm during use	This is normal, especially during heavy data transfers. The zinc alloy casing is designed to dissipate heat. If it becomes excessively hot, ensure proper ventilation. The drive has adaptive thermal balancing to protect itself.
Data corruption or loss	Always safely eject the SSD before disconnecting it. Avoid sudden power loss during transfers. If data loss occurs, specialized data recovery services may be required.

SPECIFICATIONS

Feature	Detail
Model Number	SD501
Digital Storage Capacity	2 TB
Hard Disk Interface	USB 1.1 (Note: This appears to be an error in the source data, actual interface is USB 3.2 Gen2x2)
Connectivity Technology	USB
Special Feature	Portable
Hard Disk Form Factor	2.9 Inches
Hard Disk Description	Solid State Hard Drive
Compatible Devices	Camera, Gaming Console, Laptop, Smartphone, Tablet
Installation Type	External Hard Drive
Color	Black
Hardware Platform	Windows, Mac, Android, iOS, PC, Linux

Feature	Detail
Item Weight	2.12 ounces
Product Dimensions (LxWxH)	2.93 x 1.46 x 0.42 inches
Manufacturer	SSK Corporation
Max Read Speed	Up to 2000 MB/s (USB 3.2 Gen2x2)
Max Write Speed	Up to 1800 MB/s (USB 3.2 Gen2x2)
LED Indicator	Blue (activity indicator)

Note: The 'Hard Disk Interface' listed as USB 1.1 in some specifications appears to be an error in the source data. The product is designed for USB 3.2 Gen2x2 for optimal performance.

WARRANTY AND SUPPORT

SSK products typically come with a manufacturer's warranty. For specific warranty details, please refer to the warranty card included with your product or visit the official SSK website. For technical support, troubleshooting assistance, or warranty claims, please contact SSK customer service directly or reach out to the seller via your purchase platform.

You can often find support by visiting the [SSK Direct seller page on Amazon](#) and clicking 'Ask a question'.