SSK SD320

SSK SD320 1TB External USB-C SSD Drive User Manual

Model: SD320 | Brand: SSK

1. INTRODUCTION

The SSK SD320 is a high-performance 1TB external Solid State Drive (SSD) designed for fast and reliable data storage and transfer. Featuring a USB 3.2 Gen 2x2 interface, it offers read speeds up to 2033MB/s and write speeds up to 1843MB/s (CDM-tested), making it suitable for demanding tasks such as 4K ProRes video recording directly from compatible devices like the iPhone 15/16 Pro.

Its compact, zinc alloy design ensures durability and efficient heat dissipation, while supporting various operating systems including Windows, macOS, Linux, iOS, and Android. The drive is also equipped with advanced data security features like S.M.A.R.T. monitoring and TRIM support for optimal performance and longevity.

Figure 1: The SSK SD320 1TB External USB-C SSD Drive, showcasing its compact design.

2. PACKAGE CONTENTS

- 1TB USB SSD (SSK SD320)
- SSK Leather Case

3. SETUP AND CONNECTION

The SSK SD320 is designed for plug-and-play functionality with most USB-C compatible devices. Follow these steps to connect and begin using your SSD:

1. **Unpack the Device:** Carefully remove the SSK SD320 SSD and its leather case from the packaging.
2. **Connect to Device:** Insert the USB-C connector of the SSD directly into a compatible USB-C port on your computer, smartphone, or tablet. For optimal performance, use a USB 3.2 Gen 2x2 port to achieve speeds up to 20Gbps. Connections to other USB 3.2 Gen 2 ports will be limited to 10Gbps.
3. **Initial Recognition:** Your device should automatically detect the SSD. On Windows, it may appear as a new drive letter. On macOS, it will appear on your desktop or in Finder.
4. **Formatting (if necessary):** The drive comes pre-formatted for general use. If you need to reformat the drive

for a specific operating system or file system (e.g., APFS for macOS, NTFS for Windows, exFAT for cross-platform compatibility), please refer to your operating system's disk utility instructions. *Note: Formatting will erase all data on the drive.*

5. **Capacity Display:** Be aware that the displayed capacity may vary slightly depending on your operating system. Windows typically calculates 1GB as 1024MB, while SSD manufacturers use 1GB as 1000MB. This means a 1TB drive might show approximately 953GB on Windows, while macOS can display the full 1TB.
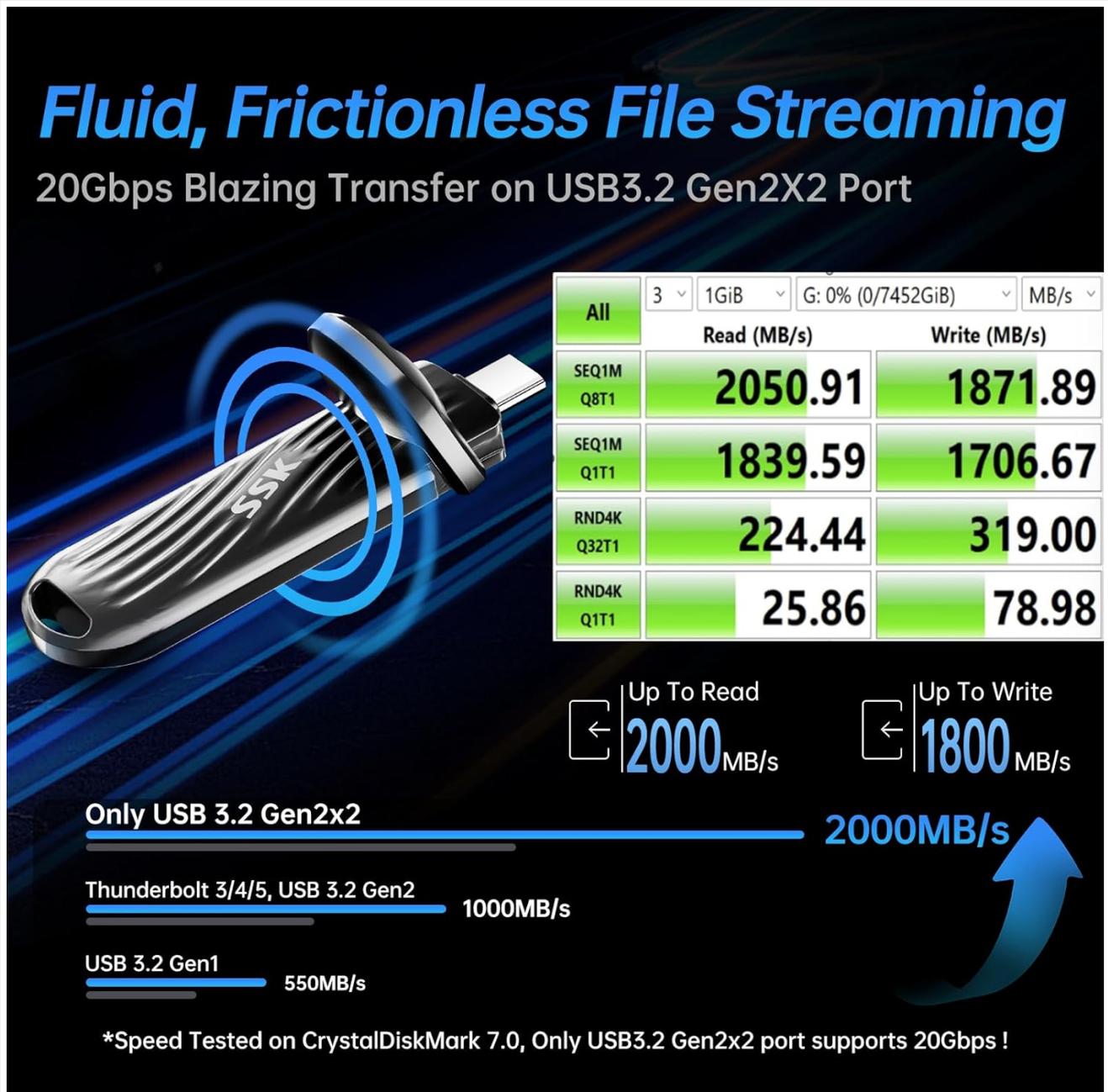

Figure 2: Universal compatibility with USB-C devices.

4. OPERATING INSTRUCTIONS

Using your SSK SD320 for data transfer and storage is straightforward:

- **File Transfer:** Drag and drop files or folders to and from the SSD as you would with any other external drive. The high-speed USB 3.2 Gen 2x2 interface ensures rapid transfers for large files and backups.

- **Mobile Storage:** Connect the SSD to compatible smartphones and tablets (e.g., iPhone 15/16 Pro, Android devices) for direct storage and access to files. This is ideal for expanding mobile device storage or recording high-resolution media.

- **4K ProRes Video Recording:** The SSK SD320 supports direct recording of 4K 60Hz ProRes videos from compatible devices like the iPhone 15/16 Pro, leveraging its ultra-low power consumption and high write speeds.
- **Windows To Go:** The drive is capable of running Windows To Go smoothly, providing a portable Windows environment.

Figure 3: Recording 4K ProRes video directly to the SSD.

Video 1: Official SSK video demonstrating the 2000 MB/s USB-C SSD Drive features and usage.

5. MAINTENANCE AND DATA SECURITY

To ensure the longevity and optimal performance of your SSK SD320, consider the following:

- **Heat Dissipation:** The robust zinc alloy casing is designed for excellent heat dissipation, ensuring the drive remains cool during intensive operations. Avoid covering the drive during use to maintain airflow.
- **S.M.A.R.T. Monitoring:** The drive supports Self-Monitoring, Analysis, and Reporting Technology (S.M.A.R.T.), which allows you to monitor the drive's health and predict potential failures. Utilize compatible software on your

operating system to access S.M.A.R.T. data.

- **TRIM Support:** TRIM command support helps maintain the performance of the SSD over time by allowing the operating system to inform the SSD which data blocks are no longer in use and can be wiped internally. Ensure TRIM is enabled on your operating system for optimal performance.
- **Endurance:** The drive is built with 600TBW (Terabytes Written) endurance, indicating its robust lifespan under typical usage conditions.
- **Physical Protection:** Use the provided leather case to protect the drive from scratches and minor impacts during transport.

Figure 4: Elite data security features of the SSK SD320.

6. TROUBLESHOOTING

If you encounter issues with your SSK SD320, consider the following common solutions:

- **Drive Not Recognized:**
  - Ensure the USB-C cable is securely connected to both the SSD and your device.
  - Try connecting to a different USB-C port on your device.

- Test the SSD with a different USB-C cable if available.
- Restart your computer or device.
- Check your operating system's Disk Management (Windows) or Disk Utility (macOS) to see if the drive is detected but uninitialized or unformatted.

- **Slow Transfer Speeds:**

  - Verify that your device's USB-C port supports USB 3.2 Gen 2x2 (20Gbps) for maximum speed. Older USB standards (e.g., USB 3.2 Gen 2 at 10Gbps, USB 3.2 Gen 1 at 5Gbps) will result in lower speeds.
  - Ensure your operating system and drivers are up to date.
  - Avoid transferring many small files simultaneously, as this can reduce overall transfer rates compared to large single files.
  - Close other applications that might be using significant system resources during transfers.

- **Overheating:**

  - While the zinc alloy casing aids in heat dissipation, prolonged heavy use can still generate warmth. Ensure the drive is in an open area with good airflow.
  - Avoid placing the drive on soft surfaces that can block heat dissipation.

- **Data Corruption/Loss:**

  - Always safely eject the drive before disconnecting it from your device to prevent data corruption.
  - Regularly back up important data to multiple locations.

7. SPECIFICATIONS

Feature	Detail
Brand	SSK
Model Number	SD320
Digital Storage Capacity	1 TB
Hard Drive Interface	Solid State
Connectivity Technology	USB 3.2 Gen 2x2 (20Gbps)
Max Read Speed	Up to 2033 MB/s
Max Write Speed	Up to 1843 MB/s
Special Features	Backward Compatible, External SSD in USB Drive, Portable, TRIM Support
Compatible Devices	Laptop, Smartphone, Tablet, iPhone 15/16 Pro
Installation Type	External Hard Drive
Color	Black
Item Weight	6.4 ounces
Product Dimensions (LxWxH)	2.6 x 0.8 x 0.3 inches
Manufacturer	SSK Corporation

Figure 5: Physical dimensions of the SSK SD320 SSD.

8. WARRANTY AND SUPPORT

SSK Corporation stands behind the quality of its products. For support and warranty information, please refer to the details below:

- **Return Policy:** This product is eligible for a 30-day refund/replacement policy from the date of purchase.
- **Data Recovery Plans:** Optional data recovery plans are available for purchase to protect your valuable data:
  - 2-Year Data Recovery Plan
  - 3-Year Data Recovery Plan
- **Manufacturer Support:** For technical assistance, product inquiries, or warranty claims, please contact SSK Direct, the manufacturer.