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› [MOVE SPEED SP20 2TB Portable SSD User Manual](#)

MOVE SPEED SP20

MOVE SPEED SP20 2TB Portable SSD User Manual

INTRODUCTION

This manual provides detailed instructions for the proper use and maintenance of your MOVE SPEED SP20 Portable SSD. Please read this guide thoroughly before using the device to ensure optimal performance and longevity. The MOVE SPEED SP20 is a high-speed portable solid-state drive designed for reliable data transfer and storage across various devices.

PRO NOTE

To achieve the maximum speed,
please follow the steps below!!

NO.1

1.MOVE SPEED SP20 can support a maximum read speed of 2100MB/S **only** through the **USB-C** port.

2.Please make sure that you are using the USB-C port instead of the USB-A port.

✓
2100MB/s



✗
1000MB/s



NO.2

Please ensure that the corresponding USB C interface of your device supports **USB3.2 Gen2x2**, or directly use Thunderbolt 5.

If it is USB3.2 Gen2x1 or USB3.2 Gen2 or USB3.2, it cannot reach 2100MB/s.

NO.3

1. Please do not use mobile phones or devices with low battery power.
This will affect the transmission performance.

2.Please do not use the docking station. We cannot guarantee that third-party docking stations meet the highest standards.

✗



✗



✗



Image: The MOVE SPEED SP20 Portable SSD, showcasing its compact design and dual USB-C and USB-A connectors.

SETUP AND CONNECTION

To achieve the maximum advertised speeds, specific connection requirements must be met. The device features both USB-C and USB-A interfaces for broad compatibility.

Interface Requirements for Maximum Speed

- **USB-C Port:** The MOVE SPEED SP20 supports a maximum read speed of 2100MB/s exclusively through its USB-C port.
- **USB-A Port:** The maximum read speed through the USB-A port is 1000MB/s.

For optimal performance (up to 2100MB/s), ensure your device's USB-C interface supports **USB 3.2 Gen2x2** or directly use a **Thunderbolt 5** interface. Devices with USB 3.2 Gen2x1, USB 3.2 Gen2, or standard USB 3.2 interfaces will not reach 2100MB/s. Avoid using docking stations, as the speed will be limited by the lowest interface speed in the chain.



Image: A visual guide detailing the required USB-C interface (USB 3.2 Gen2x2 or Thunderbolt 5) for achieving 2100MB/s read speed, compared to 1000MB/s for USB-A.

Connecting to Devices

The dual interfaces allow for convenient data transfer between various devices:


- **USB-A Interface:** Primarily for computers (Windows, Mac).
- **USB-C Interface:** For mobile phones (e.g., iPhone 15 Pro or later) and computers with compatible USB-C ports.

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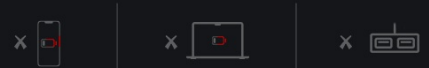


Image: The portable SSD connected to various devices, demonstrating its wide compatibility with USB-A and USB-C ports.

OPERATING INSTRUCTIONS

Data Transfer

Simply plug the appropriate connector (USB-A or USB-C) into your device. The drive should be recognized automatically. You can then drag and drop files, or use your device's file management system to transfer data.

4K ProRes Video Capture

The MOVE SPEED SP20 supports 4K 60Hz ProRes HDR video capture for compatible devices such as the iPhone 15 series (iPhone 15 Pro or later). Ensure your device supports 4K video recording to utilize this feature.

Your browser does not support the video tag.

Video: An official demonstration of the MOVE SPEED External SSD 2100MB/s, highlighting its features and usage.

CAPACITY INFORMATION

It is important to understand the difference between how hard drive manufacturers calculate capacity and how operating systems display it.

Decimal vs. Binary Calculation

Hard disk manufacturers calculate capacity in decimal (1TB = 1,000,000,000,000 bytes). Operating systems, however, display capacity in binary (1TB ≈ 1,099,511,627,776 bytes or 1024GB). This difference results in the actual available space being approximately 7% to 10% less than the nominal value.

For example, a 2TB hard drive will typically show approximately 1.81TB on a computer. Additionally, formatting the drive will occupy a small amount of space, resulting in a final available capacity between approximately 1.75TB and 1.81TB. This is a standard practice across all hard drives and is not indicative of a quality issue.

Formatting and File System

The hard disk needs to be formatted, and a file system (such as NTFS or FAT32) needs to be established. If your computer has a pre-installed system, there may be space reserved for system recovery partitions or pre-installed software by the manufacturer. File system overhead usually accounts for 1% to 3% of the total capacity. Recovery partitions can take up to 10 to 20GB for both Windows and Mac systems.



Image: A detailed chart explaining the capacity difference between manufacturer's decimal calculation and operating system's binary display, including space occupied by formatting.

PERFORMANCE NOTES

Ultra-Fast Speed

The MOVE SPEED SP20, with its USB 3.2 Gen2x2 interface, offers a read speed of up to 2100MB/s and a write speed of 1800MB/s. These speeds are laboratory-derived. To achieve these rates, professional software, equipment, and a compatible USB 3.2 Gen2x2 or Thunderbolt 5 interface are required.



Image: A comparison graphic highlighting the significantly faster data transfer speeds of the MOVE SPEED SP20 for large files like 500GB Blu-ray movies.

TLC Reliable Transfer

The device utilizes TLC (Triple-Level Cell) NAND technology, which ensures stable and continuous data transfer, even when handling large files (over 100GB) or during demanding tasks like gaming. This technology helps maintain consistent speed throughout the transfer process, enhancing data security and user experience.

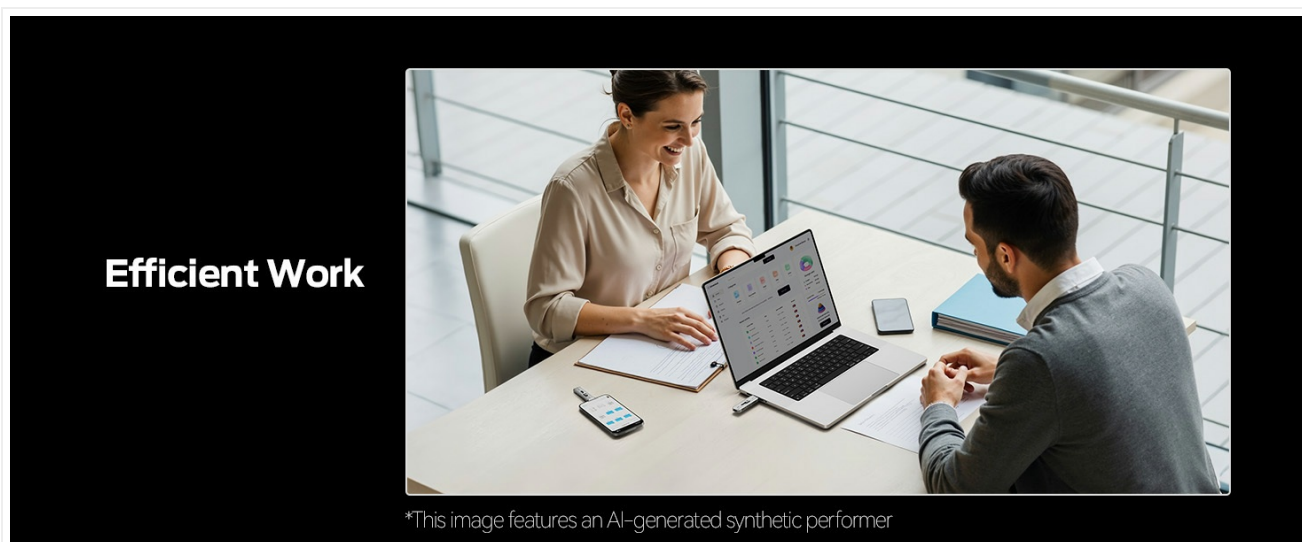


Image: An illustration of the internal High Quality TLC NAND and High Performance Controller, alongside a graph showing consistent write speeds for the SP20, preventing frame drops during 4K video recording.

MAINTENANCE

To ensure the longevity and optimal performance of your MOVE SPEED SP20 Portable SSD, consider the

following:

- **Safe Ejection:** Always safely eject the drive from your operating system before physically disconnecting it to prevent data corruption.
- **Temperature:** The device may get warm during extended use, especially during large data transfers. This is normal. Allow it to cool if it becomes excessively hot.
- **Physical Protection:** The zinc alloy enclosure provides shock resistance. However, avoid dropping the device from significant heights or subjecting it to extreme physical impact.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the drive. Avoid liquid cleaners.

TROUBLESHOOTING

Slow Transfer Speeds

- **Interface Check:** Verify that you are using the USB-C port for maximum speed and that your device supports USB 3.2 Gen2x2 or Thunderbolt 5. Using a lower-spec port (e.g., USB 3.2 Gen2x1, USB 3.2, or USB-A) will result in lower speeds.
- **Direct Connection:** Avoid using docking stations or USB hubs, as they can limit transfer speeds. Connect the SSD directly to a compatible port on your computer or phone.
- **Device Power:** Do not use the SSD with mobile phones or devices that have low battery power, as this can affect transmission performance.
- **Cable Quality:** Ensure you are using a high-quality USB 3.2 Gen2x2 compatible cable.

Drive Not Recognized

- **Re-plug:** Disconnect and reconnect the drive.
- **Try Another Port:** Test the drive with a different USB port on your device.
- **Check Device Manager (Windows) / Disk Utility (Mac):** Ensure the drive is visible in your system's disk management tools. It may need to be initialized or formatted if it's a new drive or if the file system is incompatible.
- **Driver Updates:** Ensure your computer's USB drivers are up to date.

SPECIFICATIONS

Digital Storage Capacity	2 TB
Hard Disk Interface	USB 3.0 (Note: Supports USB 3.2 Gen2x2 via Type-C)
Connectivity Technology	USB
Brand	MOVE SPEED
Special Feature	Portable, Shock Resistant
Hard Disk Form Factor	1 Inches
Hard Disk Description	Solid State Hard Drive
Compatible Devices	Desktop, Gaming Console, Laptop, Smartphone
Installation Type	External Hard Drive

Color	Silver
Read Speed	2100 Megabytes Per Second
Write Speed	1800 Megabytes Per Second (approximate, based on feature bullets)
Data Transfer Rate	2100 Megabytes Per Second
Form Factor	2.5-inch
Hardware Platform	Mac, PC
Enclosure Material	Zinc alloy
Item Weight	48.4 Grams
Item Dimensions (L x W x Thickness)	3"L x 0.9"W x 0.5"Th

WARRANTY AND SUPPORT

MOVE SPEED provides a one-year warranty for this product. If you encounter any quality problems, please contact MOVE SPEED customer support for assistance. They are committed to arranging an immediate replacement if necessary.

For further support, please refer to the official MOVE SPEED website or contact their customer service directly. Contact information can typically be found on the product packaging or the brand's official online presence.