

Lexar LSL500X004T-RNBNU

Lexar SL500 Portable SSD User Manual

Model: LSL500X004T-RNBNU

1. INTRODUCTION

The Lexar SL500 Portable SSD is a high-performance external solid-state drive designed for fast data storage and transfer. Its compact and durable design makes it ideal for users on the go, offering broad compatibility with various devices. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Lexar SL500 Portable SSD.



Figure 1.1: Lexar SL500 Portable SSD, showcasing its sleek black design and compact form factor.

2. FEATURES

- **Incredible USB 3.2 Gen 2x2 Performance:** Achieve up to 2000MB/s read and 1800MB/s write speeds for rapid file transfers. (Note: Performance on Mac and other systems not supporting USB 3.2 Gen 2x2 may be lower.)
- **Ultra-Slim and Lightweight Design:** Features a thin, durable metal construction that easily fits into a pocket or bag.
- **Apple Pro Res Recording Support:** Directly record in up to 4K 60FPS with iPhone 15 Pro and iPhone 15 Pro Max.
- **Wide Compatibility:** Works with mobile devices, iPhone 15/16 series, laptops, cameras, Xbox X|S, PS4, PS5, and more.
- **Unique Thermal Control Design:** Ensures optimal temperatures are maintained even during high-speed operations, preserving performance.
- **Plug-and-Play Convenience:** Equipped with a Type-C data cable for immediate use.
- **Enhanced Data Security:** Includes Lexar DataShield 256-bit AES encryption software to protect sensitive files.
- **Compact Dimensions:** Measures 3.3" x 2.1" x 0.3" and weighs approximately 0.095 lbs.



Figure 2.1: The compact dimensions of the Lexar SL500 Portable SSD, highlighting its slim profile.

3. WHAT'S IN THE BOX

- Lexar SL500 Portable SSD
- Type-C Cable

4. SETUP

1. **Connect the SSD:** Use the provided Type-C cable to connect the Lexar SL500 Portable SSD to a compatible USB-C port on your computer, smartphone, or gaming console.
2. **Initial Recognition:** The device should be automatically recognized by your operating system. For Windows, it may appear as a new drive letter in 'This PC' or 'My Computer'. For macOS, it will appear on the desktop or in Finder.
3. **Formatting (Optional):** While typically pre-formatted for general use, you may choose to reformat the drive to a specific file system (e.g., NTFS for Windows, HFS+ or APFS for macOS, exFAT for cross-platform compatibility) using your device's disk management utility. Back up any data before formatting.
4. **Install Lexar DataShield Software:** For enhanced security, download and install the Lexar DataShield 256-bit AES encryption software from the official Lexar website. Follow the on-screen instructions to set up encryption for your files.

5. OPERATING THE SSD

5.1 Data Transfer

To transfer files, simply drag and drop them to and from the Lexar SL500 Portable SSD, similar to any other external drive. For optimal performance, ensure your device supports USB 3.2 Gen 2x2. The drive is capable of up to 2000MB/s read and 1800MB/s write speeds.

UP TO
2000 READ
MB/s*

UP TO
1800 WRITE
MB/s*

Exceptional USB 3.2 Gen 2x2 Performance

Figure 5.1: The Lexar SL500 Portable SSD connected to a laptop, illustrating its high-speed data transfer capabilities.

5.2 Device Compatibility

The Lexar SL500 Portable SSD offers broad compatibility:

- **Computers:** Compatible with most laptops and desktops running Windows or macOS.
- **Smartphones & Tablets:** Supports iPhone 15/16 series and other smartphones/tablets with USB-C connectivity.
- **Gaming Consoles:** Works with PlayStation 4 (PS4), PlayStation 5 (PS5), Xbox X|S, and other compatible gaming systems for expanded storage.
- **Cameras:** Can be used with compatible cameras for direct recording or storage.



Wide Compatibility

Figure 5.2: The Lexar SL500 Portable SSD demonstrating wide compatibility with mobile phones, cameras, gaming consoles, and laptops.

5.3 Apple Pro Res Recording

For iPhone 15 Pro and iPhone 15 Pro Max users, the SL500 supports direct Apple Pro Res video recording at up to 4K 60FPS. Connect the SSD to your iPhone via the Type-C cable and select the SL500 as the recording destination in your camera settings.

Shoot Directly to the Drive in Apple Pro Res*



* With iPhone 15 Pro and iPhone 15 Pro Max. Magnetic ring sold separately

Figure 5.3: The Lexar SL500 Portable SSD connected to an iPhone, enabling direct Apple Pro Res video recording.

5.4 Thermal Control

The SL500 features a unique thermal control design to manage heat dissipation effectively. This ensures that the drive maintains optimal operating temperatures even during intensive data transfers, preventing performance degradation due to overheating.

Unique Thermal Control Design ensures optimal temperatures



Figure 5.4: An internal view illustrating the unique thermal control design of the Lexar SL500 Portable SSD.

6. MAINTENANCE

- **Safe Ejection:** Always safely eject the SSD from your operating system before disconnecting the cable to prevent data corruption.
- **Physical Care:** Keep the SSD clean and free from dust. Avoid exposing it to extreme temperatures, direct sunlight, or moisture. Do not drop or subject the drive to strong impacts.
- **Software Updates:** Periodically check the official Lexar website for any firmware updates or updated versions of the Lexar DataShield software to ensure optimal performance and security.

7. TROUBLESHOOTING

7.1 Drive Not Recognized

- **Check Connection:** Ensure the Type-C cable is securely connected to both the SSD and your device. Try a different USB-C port if available.
- **Try Another Cable/Device:** Test the SSD with a different Type-C cable or on another computer/device to rule out cable or port issues.
- **Disk Management (Windows):** Open Disk Management (right-click Start button > Disk Management) to see if the drive appears there, even if unformatted or unallocated.
- **Disk Utility (macOS):** Open Disk Utility (Applications > Utilities > Disk Utility) to check if the drive is listed.

7.2 Slow Transfer Speeds

- **USB Port Type:** Ensure you are connected to a USB 3.2 Gen 2x2 port for maximum performance. Connecting to older USB 2.0 or 3.0 ports will result in lower speeds.
- **System Resources:** Close other demanding applications during large file transfers.
- **File System:** Ensure the drive is formatted with a modern file system (e.g., exFAT, NTFS, APFS) that supports high speeds.
- **Cable Quality:** Use the original Lexar Type-C cable or a high-quality, certified USB 3.2 Gen 2x2 cable.

7.3 Data Corruption or Errors

- **Safe Ejection:** Always ensure you safely eject the drive before disconnecting.
- **Scan for Errors:** Use your operating system's built-in disk error checking tools (e.g., 'Check Disk' on Windows, 'First Aid' in Disk Utility on macOS).
- **Reformat:** If issues persist and data can be backed up, reformatting the drive may resolve persistent corruption.

8. SPECIFICATIONS

Feature	Detail
Brand	Lexar
Model Number	LSL500X004T-RNBNU
Digital Storage Capacity	4 TB
Hard Disk Interface	USB 3.0 (Note: Product supports USB 3.2 Gen 2x2 for higher speeds)
Connectivity Technology	USB
Read Speed (Max)	Up to 2000MB/s
Write Speed (Max)	Up to 1800MB/s
Special Feature	Portable
Hard Disk Form Factor	2.5 Inches
Hard Disk Description	Solid State Drive

Feature	Detail
Compatible Devices	Laptop, Gaming Console, Desktop, Camera, Smartphone
Installation Type	External Hard Drive
Color	Black
Item Weight	4.6 ounces
Product Dimensions (LxWxH)	3.3 x 2.1 x 0.3 inches
Manufacturer	Lexar International
Country of Origin	China

9. WARRANTY AND SUPPORT

The Lexar SL500 Portable SSD comes with a **Five-Year Limited Warranty**. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official Lexar website.

For technical support, driver downloads, or further assistance, please visit the Lexar support page:

www.lexar.com/support

© 2025 Lexar International. All rights reserved.