



# LaCie Rugged SSD

User Manual

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# Introduction

LaCie Rugged SSD is the perfect NVMe-boosted solution for filmmakers and DITs. Get speeds of up to 950MB/s<sup>1</sup>, extreme IP67-rated water resistance, three-meter drop resistance, and password protection in a palm-sized USB-C drive.

For common questions and answers about your device, see [Frequently Asked Questions](#) or visit [LaCie customer support](#).

## Box content

- LaCie Rugged SSD
- USB 3.1 Gen 2 (USB-C) cable



**Important**—Save your packaging. If you experience problems with your device and want to exchange it, the device must be returned in its original packaging.

## Minimum system requirements

### Ports

Use the included cable to connect your LaCie device to a computer with a USB-C port.

### Operating system

Go to [Operating System Requirements for Seagate Hardware & Software](#).

### Minimum free disk space

600MB recommended.

## Ingress Protection rating

The Ingress Protection (IP) rating is a standard for defining the types of protection supported by equipment and devices. The two-digit code for IP lets users know the conditions that the device can withstand. The two

digits are independent, with each number representing a different level of protection.

LaCie Rugged SSD is rated IP67.

**6: Dust tight**—No ingress of dust. Complete protection against contact (dust tight).

**7: Immersion up to 1m**— Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 m of submersion).

Rugged SSD has also been tested for the following:

- **Drop resistance**—Dropped from heights up to 3 meters (in non-operating mode).

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<sup>1</sup>Data rates may vary depending on operating environment, interface, and capacity.

# Cables and Connectors

## USB-C protocols

USB is a serial input/output technology for connecting peripheral devices to a computer. USB-C is the latest implementation of this standard and it provides higher bandwidth and new power management features.

USB-C supports many protocols:

Hi-Speed USB 2.0	transfer rates up to 480Mb/s
SuperSpeed USB 3.0	transfer rates up to 5Gb/s
USB 3.1 Gen 1	transfer rates up to 5Gb/s
USB 3.1 Gen 2	transfer rates up to 10Gb/s
Thunderbolt 3	transfer rates up to 40Gb/s

The USB-C port on the LaCie Rugged SSD is USB 3.1 Gen 2. You can connect your Rugged SSD to any USB-C port.

## Cables

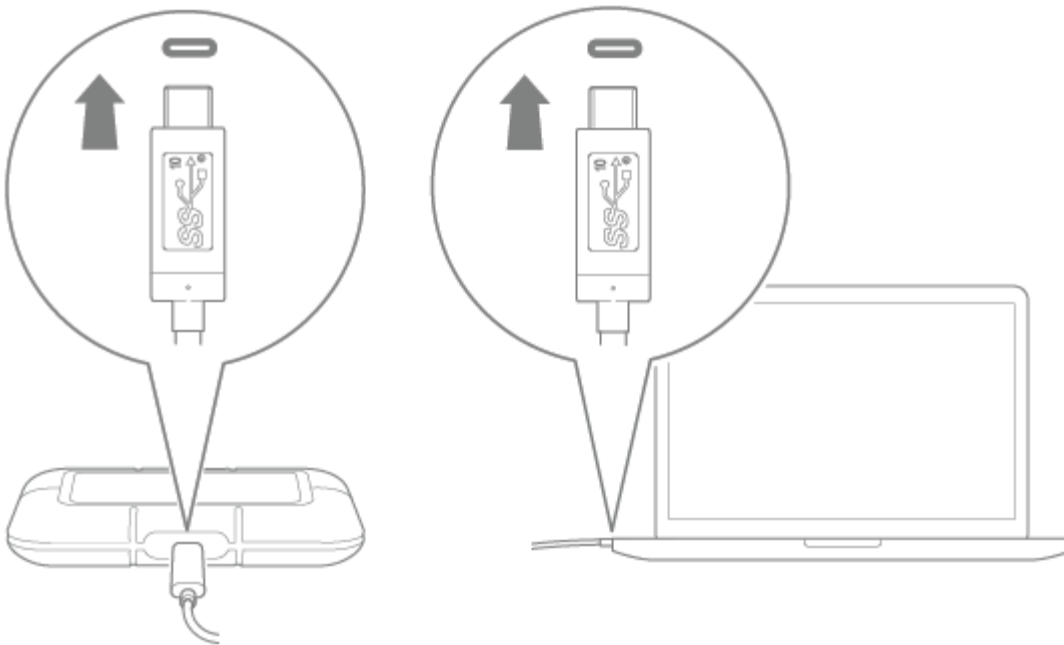
Use the USB 3.1 (USB-C) cable to connect Rugged SSD to your computer.



# Getting Started

## 1 Connect the USB cable

Use the USB-C to USB-C cable to connect LaCie Rugged SSD to your computer.



## 2 Set up LaCie Rugged SSD

The setup process lets you:

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Register your LaCie Rugged SSD

Get the most from your drive with easy access to information and support.

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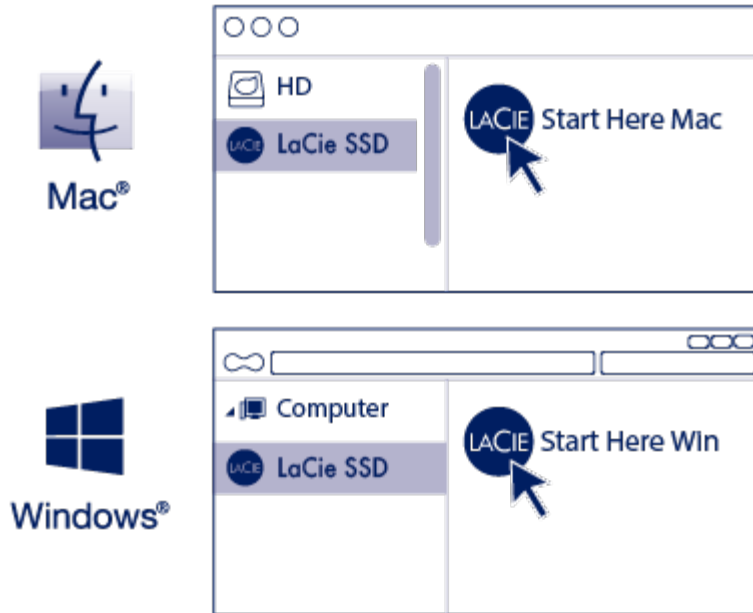
Install Toolkit

Enable security, create backup plans (Windows only), and more.



Your computer must be connected to the internet to register your device and install Toolkit.

## A Start here



Using a file manager such as Finder or File Explorer, open LaCie Rugged SSD and launch [Start Here Mac](#) or [Start Here Win](#).

## B Register your device

### Register

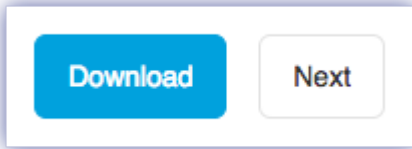
I have read and agree to...

- Terms and Conditions
- Privacy Statement
- Optional Offers



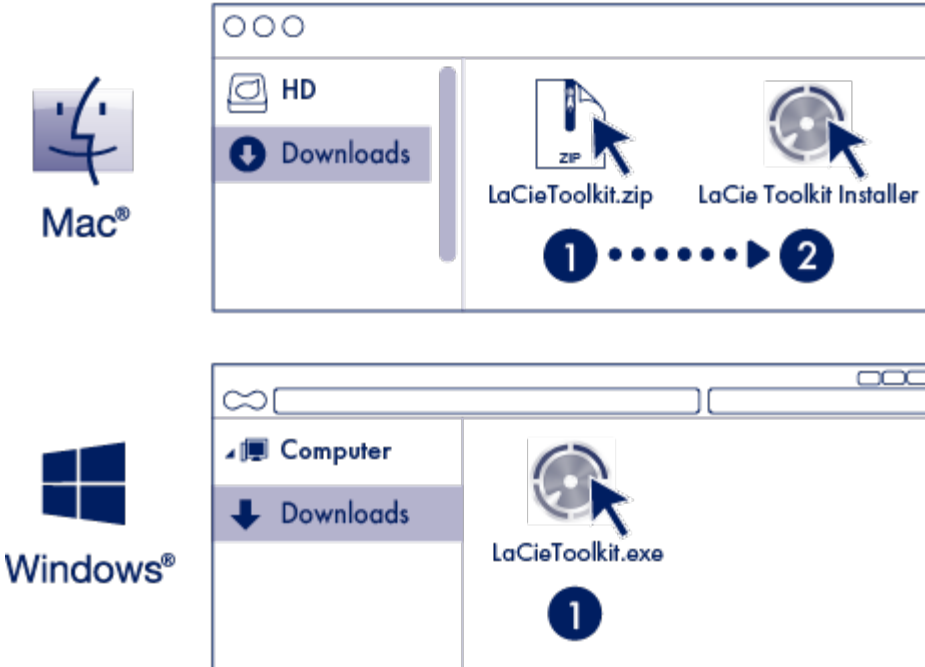
Enter your information and click [Register](#).

## C Download Toolkit



Click the [Download](#) button.

## D Install Toolkit



Using a file manager such as Finder or File Explorer, go to the folder where you receive downloads.



Open the [LaCieToolkit.zip](#) file. Click on the [LaCie Toolkit Installer](#) to launch the application.



Click on the [LaCieToolkit.exe](#) file to launch the application.



Your computer must be connected to the internet to install and run Toolkit.



Toolkit is required in order to enable security for LaCie Rugged SSD. Be sure to install Toolkit in order to password-protect your device using Seagate Secure 256-bit encryption.

## Storage format

LaCie Rugged SSD is preformatted exFAT for compatibility with both Windows and Mac computers. If you use the drive with only one type of computer, you can optimize file copy performance by formatting the drive in the native file system for your operating system. See [Optional Formatting and Partitioning](#) for details.

## Disconnecting the device

In order to avoid file system corruption, it's important to unmount LaCie Rugged SSD's volumes before disconnecting the interface cable. See [Safely Remove Devices From Your Computer](#) for details.

# Works with iPad USB-C

Your LaCie storage devices can be used with higher-end iPads. This is a great option for moving files between computers, cloud services and external storage. The iPad is also a perfect mobile editing station for importing media to more advanced imaging and video apps.

See [External Storage and iPadOS](#) for details on the following:

- Connecting Storage to Compatible iPads
- Available Actions
- Selecting Multiple Items
- Accessing Storage Devices in an App
- Supported External Storage Devices and USB Hubs
- External Storage Performance on iPad Versus a Computer
- Thunderbolt Storage Devices
- Battery Use
- Ejecting
- Storage Formats
- Password Protection
- Toolkit and First Use Connections

# Use Toolkit to Set Up Security, Backups, and More

Toolkit provides useful tools that let you easily manage security, set up backup plans and mirror folders, and more.

## Enable security

Toolkit is required to enable security for LaCie Rugged SSD. Be sure to install Toolkit in order to password-protect your device using Seagate Secure 256-bit encryption.

- [Click here](#) for details on enabling security.

## Set up a mirror folder

Create a Mirror folder on your PC or Mac that is synced to your storage device. Whenever you add, edit, or delete files in one folder, Toolkit automatically updates the other folder with your changes.

- [Click here](#) for details on creating a mirror folder.

## Start a backup plan (Windows only)

Create a plan customized for the content, storage device, and schedule of your choosing.

- [Click here](#) for details on setting up a backup plan.

# Safely Remove Device From Your Computer

Always eject a storage drive from your computer before physically disconnecting it. Your computer must perform filing and housekeeping operations on the drive before it is removed. Therefore, if you unplug the drive without using the operating system's software, your files can become corrupt or damaged.

## Windows

Use the Safely Remove tool to eject a device.

1. Click the Safely Remove Hardware icon in your Windows System Tray to view the devices you can eject.
2. If you don't see the Safely Remove Hardware icon, click the Show hidden icons arrow in the system tray to display all icons in the notification area.
3. In the list of devices, choose the device you want to eject. Windows displays a notification when it is safe to remove the device.
4. Disconnect the device from the computer.

## Mac

There are several ways you can eject your device from a Mac. See below for two options.

### Eject via Finder window

1. Open a Finder window.
2. On the sidebar, go to Devices and locate the drive you want to eject. Click the eject symbol to the right of the drive name.
3. Once the device disappears from the sidebar or, the Finder window closes, you can disconnect the interface cable from your Mac.

### Eject via Desktop

1. Select the desktop icon for your device and drag it to the Trash.
2. When the device icon is no longer visible on your desktop, you can physically disconnect the device from your Mac.



# Optional Formatting and Partitioning

Your device is preformatted exFAT (Extended File Allocation Table) for compatibility with both Mac and Windows computers.

## Choosing a file system format

When choosing a file system format, consider whether **compatibility** or **performance** is more important in your everyday use of the drive.

- **Compatibility**—You need a cross-platform format because you connect your drive to both PCs and Macs.
- **Performance**—You connect your drive with only one type of computer, so you can optimize file copy performance by formatting the drive in the native file system for your computer operating system.

## Compatibility with both Windows and Macs

exFAT is a lightweight file system compatible with all versions of Windows and modern versions of macOS. If you use your drive with both PCs and Macs, format your drive in exFAT. While exFAT offers cross-platform access to both computers, keep in mind the following:

- exFAT is not compatible or recommended for built-in backup utilities such as File History (Windows) and Time Machine (macOS). If you want to use one of these backup utilities, you should format the drive in the native file system for the computer running the utility.
- exFAT is not a journaled file system, which means it can be more susceptible to data corruption when errors occur or the drive is not disconnected properly from the computer.

## Optimized performance for Windows

NTFS (New Technology File System) is a proprietary journaling file system for Windows. macOS can read NTFS volumes, but it can't natively write to them. This means your Mac can copy files from an NTFS-formatted drive, but it can't add files to or remove files from the drive. If you need more versatility than this one-way transfer with Macs, consider exFAT.

## Optimized performance for macOS

Apple offers two proprietary file systems.

Mac OS Extended (also known as Hierarchical File System Plus or HFS+) is an Apple file system used since 1998 for mechanical and hybrid internal drives. macOS Sierra (version 10.12) and earlier use HFS+ by

default.

APFS (Apple File System) is an Apple file system optimized for solid state drives (SSDs) and flash-based storage systems, though it also works with hard disk drives (HDDs). It was first introduced with the release of macOS High Sierra (version 10.13). APFS can only be read by Macs running High Sierra or later.

When choosing between Apple file systems, consider the following:

- Windows cannot natively read or write to APFS or HFS+ volumes. If you need cross-platform compatibility, you should format the drive in exFAT.
- If you intend to use your drive with Time Machine:
  - The default format for macOS Big Sur (version 11) and later is APFS.
  - The default format for macOS Catalina (version 10.15) and earlier is HFS+.
- If you intend to use your drive to move files between Macs running older OS versions, consider formatting your drive in HFS+ rather than APFS.
- macOS file systems and Android: Formatting your drive for macOS may not be supported with connections to Android mobile devices.

## Learn more

For additional considerations when choosing a file system format, see [File System Format Comparisons](#).

## Formatting instructions

For instructions on formatting your drive, see [How to format your drive](#).



# Frequently Asked Questions

For help setting up and using LaCie Rugged SSD, review the frequently asked questions below. For additional support resources, go to [LaCie customer support](#).

## All users

### **Problem: My file transfers are too slow**

Q: Are both ends of the USB cable firmly attached?

A: Review troubleshooting tips for cable connections below:

- Check both ends of the USB cable and make sure that they are fully seated in their respective ports.
- Try disconnecting the cable, waiting 10 seconds, and then reconnecting it.
- Try a different USB cable.

Q: Are there other USB devices connected to the same port or hub?

A: Disconnect other USB devices and see if the storage device's performance improves.

### **Problem: I have an older computer with USB 3.0 (Type A) ports**

Q: Will my storage device's USB 3.1 Gen 2 port work with my computer's USB 3.0 port?

A: Yes, the device is compatible with USB 3.0 ports, however, the product does not include a cable with a USB Type A connector. Transfer rates are much slower with USB 3.0.

### **Problem: I must use a USB hub for my USB devices**

Q: Can I use my storage device with a USB hub?

A: Yes, the storage device can be connected to a USB hub. If you use a hub and encounter detection problems, slower than normal transfer rates, random disconnection from your computer or other unusual issues, try connecting the storage device directly to the computer's USB port.

Some USB hubs are less than efficient with power management, which can be problematic for connected

devices. In such a case, consider trying a powered USB hub that includes a power cable.

## **Problem: The provided USB cables are too short**

Q: Can I use my storage device with a longer cable?

A: Yes, provided it is certified according to USB standards. However, LaCie recommends using the cable shipped with your storage device for the best results. If you use a longer cable and experience problems with detection, transfer rates or disconnection, use the original cable included with your storage device.

## **Problem: I'm receiving file transfer error messages**

Q: Did you get an "Error -50" message while copying to a FAT32 volume?

A: When copying files or folders from a computer to a FAT32 volume, certain characters in the names cannot be copied. These characters include, but are not limited to: ? < > / \ :

Check your files and folders to ensure that these characters are not in the names.

If this is a recurring problem or you cannot find files with incompatible characters, consider reformatting the drive to NTFS (Windows users) or HFS+ (Mac users). See [Optional Formatting and Partitioning](#).

Q: Did you get an error message telling you that the drive has been disconnected when coming out of sleep mode?

A: Ignore this message since the drive remounts on the desktop despite the pop-up.

# **Mac**

## **Problem: The device icon does not appear on my desktop**

Q: Is your Finder configured to hide external disks on the desktop?

A: Go to Finder and then check **Preferences | General tab | Show these items on the desktop**. Confirm that **External Disks** is selected.

Q: Is your device mounting in the operating system?

A: Open Disk Utility at **Go | Utilities | Disk Utility**. If the device is listed in the left-hand column, check your Finder preferences to see why it is not displayed on the desktop (review the question above).

Q: Does your computer's configuration meet the minimum system requirements for use with this storage device?

A: Refer to the product packaging for the list of supported operating systems.

Q: Did you follow the correct installation steps for your operating system?

A: Review the installation steps in [Getting Started](#).

## Windows

### Problem: The device icon doesn't appear in Computer

Q: Is the storage device listed in Device Manager?

A: All storage devices appear in at least one place in Device Manager.

Type `Device Manager` in Search to launch it. Look in the Disk Drives section and, if necessary, click the Plus (+) icon to view the full list of devices. If you're uncertain that your storage device is listed, safely unplug it and then reconnect it. The entry that changes is your LaCie device.

Q: Is your device listed next to an unusual icon?

A: Windows Device Manager usually provides information about failures with peripherals. While the Device Manager can assist with troubleshooting most problems, it may not display the exact cause or provide a precise solution.

An unusual icon next to the device can reveal a problem. For example, instead of the normal icon based on the type of device, it has an exclamation point, question mark or an X. Right click this icon and then choose Properties. The General tab provides a potential reason why the device is not working as expected.

# Regulatory Compliance

Product Name LaCie Rugged SSD

Regulatory Model Number LRD0SV1

## China RoHS 2



China RoHS 2 refers to the Ministry of Industry and Information Technology Order No. 32, effective July 1, 2016, titled Management Methods for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products. To comply with China RoHS 2, we determined this product's Environmental Protection Use Period (EPUP) to be 20 years in accordance with the Marking for the Restricted Use of Hazardous Substances in Electronic and Electrical Products, SJT 11364-2014.

中国 RoHS 2 是指 2016 年 7 月 1 日起施行的工业和信息化部令第 32 号“电力电子产品限制使用有害物质管理办法”。为了符合中国 RoHS 2 的要求，我们根据“电子电气产品有害物质限制使用标识”(SJT 11364-2014) 确定本产品的环保使用期 (EPUP) 为 20 年。

部件名称 Part Name	有害物质 Hazardous Substances					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr <sup>6+</sup> )	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
固态驱动器 SSD	X	O	O	O	O	O
外接硬盘印刷电路板 Bridge PCBA	X	O	O	O	O	O
电源 (如果提供) Power Supply (if provided)	X	O	O	O	O	O
接口电缆 (如果提供) Interface cable (if provided)	X	O	O	O	O	O
其他外壳组件 Other enclosure components	O	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制。  
This table is prepared in accordance with the provisions of SJ/T 11364-2014

O: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。  
O: Indicates that the hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。

## Taiwan RoHS

Taiwan RoHS refers to the Taiwan Bureau of Standards, Metrology and Inspection's (BSMI's) requirements in standard CNS 15663, Guidance to reduction of the restricted chemical substances in electrical and electronic equipment. Beginning on January 1, 2018, Seagate products must comply with the "Marking of presence" requirements in Section 5 of CNS 15663. This product is Taiwan RoHS compliant. The following table meets the Section 5 "Marking of presence" requirements.

台灣RoHS是指台灣標準局計量檢驗局(BSMI)對標準CNS15663要求的減排電子電氣設備限用化學物質指引。從2018年1月1日起, Seagate 產品必須符合CNS15663第5節「含有標示」要求。本產品符合台灣RoHS。下表符合第5節「含有標示」要求。

產品名稱：外接式固態硬碟，型號：LRD05V1		Product Name: LaCie Rugged SSD, Model: LRD05V1				
單元 Unit	限用物質及其化學符號 Restricted Substance and its chemical symbol					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr <sup>6+</sup> )	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
固態驅動器 SSD	—	0	0	0	0	0
外接硬盤印刷電路板 Bridge PCBA	—	0	0	0	0	0
電源 (如果提供) Power Supply (if provided)	—	0	0	0	0	0
傳輸線材 (如果提供) Interface cable (if provided)	—	0	0	0	0	0
其他外殼組件 Other enclosure components	0	0	0	0	0	0
備考 1. "0" 係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 1. "0" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.						
備考 2. "—" 係指該項限用物質為排除項目。 Note 2. "—" indicates that the restricted substance corresponds to the exemption.						