

SAFETY GUIDELINES

Important info: Do-it-yourself repairs not covered in this manual will invalidate the warranty.

SAFE HANDLING

The LaCie 8big Rack Thunderbolt 2 must run with all of its parts and units in place. In order to comply with applicable safety, emission, and thermal requirements, no covers should be removed during normal operation. All parts must be installed according to the instructions (see [Setting Up](#)).

Permanently unplug the unit if you think that it has become damaged in any way.

The LaCie 8big Rack Thunderbolt 2 features three parts that are hot-swappable:

- Hard drives (up to eight)
- Fans (x3)
- Power supply units (hot-swappable when two power supplies are installed and running)

The DAS can remain powered on when replacing a hot-swappable part. For all other types of maintenance and physical troubleshooting, shut down and disconnect power from the DAS. Only qualified technical service personnel should be allowed to maintain the DAS.

Shut down and unplug the unit before moving it.

Caution: If this equipment is used in a manner not specified by LaCie, the protection provided by the equipment may be impaired.

SAFETY

Power supplies

The LaCie 8big Rack Thunderbolt 2 must be operated from a minimum of one power supply unit. The input voltage range for a single power supply is 100-240V, 50/60Hz, 250W.

Make sure that the socket outlets are located near the equipment and are easily accessible.

Before removal/replacement of a power supply, disconnect the power supply cable for complete isolation.

Hot swapping a power supply is not supported on units that feature a single power supply or units with only one functional power supply.

ENVIRONMENT

A safe electrical ground connection must be provided to the power cord. Check the grounding of the enclosure before applying power.

Provide a suitable power source with electrical overload protection to meet the requirements laid down in the technical specification.

Never expose your device to rain, or use it near water, or in damp or wet conditions. Never place objects containing liquids on the enclosure, as they may spill into its openings. Doing so increases the risk of electrical shock, short-circuiting, fire, or personal injury.

Always unplug the device from the electrical outlet if there is a risk of lightning or if it will be unused for an extended period of time. Otherwise, there is an increased risk of electrical shock, short-circuiting, or fire.

Hot surfaces (heat sinks) are exposed when the enclosure top cover is removed. Disconnect power and allow the enclosure to cool before working inside the system.

When pulled out from the rack, the enclosure must not be used as a shelf to support any other object.

Caution: Do not remove covers from the PSU: there is a danger of electric shock inside. If the PSU fails during the warranty period, return it to LaCie.

Fans

WARNING: Removing the enclosure cover when the DAS is powered on will reveal moving parts, specifically the rotating fan blades. **You must remain vigilant when opening the enclosure cover. Above all, show extreme caution with the fans and other moving parts within the LaCie 8big Rack Thunderbolt 2.**

RACK SYSTEM SAFETY PRECAUTIONS

The rack cabinet must be capable of supporting the total weight of the installed enclosure(s) and the design should incorporate stabilizing features suitable to prevent the cabinet from tipping or being pushed over during installation or in normal use.

When loading a rack cabinet with the units, fill from the bottom up and empty it from the top down.

Do not add any load onto the LaCie 8big Rack Thunderbolt 2 when it is mounted on its rack rails and installed on its slide. Doing so can bend the rails and prevent the slide from proper operation.

Caution: To avoid danger of the cabinet toppling over, under no circumstances should more than one enclosure be drawn out of the rack cabinet at any one time.

The rack cabinet design should take into consideration the maximum operating ambient temperature for the unit, which is 40°C. Should the environment remain above 40°C for an extended period of time, there is a strong risk that the enclosure will automatically spin down the hard drives and enter idle mode. This is a safety precaution to protect the hard drives.

The rack cabinet should have a safe electrical distribution system. It must provide overcurrent protection for the unit and must not be overloaded by the total number of units installed in the rack. When addressing these concerns, consider the electrical power consumption rating shown on the product.

The electrical distribution system must provide a reliable ground for each unit and for the cabinet.

The power supply unit has a ground leakage current of 3.5mA. The design of the electrical distribution system must take into consideration the total ground leakage current from all the power supplies in all the units.

When configured, the cabinet must meet the safety requirements of IEC 60950-1 2nd edition.

RACK INSTALLATION PREREQUISITES

The LaCie LaCie 8big Rack Thunderbolt 2 enclosure is designed for installation into an industry standard 19-inch rack cabinet subject to the following requirements:

- There must be a minimum depth of 850mm (33.5 inches) from rack posts to maximum extremity of enclosure (including rear cabling and cable management kit).
- The rack must be able to support enclosures weighing up to 20Kg (45 lb.).
- There must be a minimum gap of 25mm (1 inch) between the rack cover and front of the enclosure.
- There must be a minimum gap of 50mm (2 inches) between the rear of the enclosure and the rear of the rack in order to maintain the correct air flow around the enclosure.
- Use in a fully enclosed rack installation is not recommended.
- The rack design should take into consideration the maximum operating ambient temperature for the unit, which is 40°C. Should the environment remain above 40°C for an extended period of time, there is a strong risk that the enclosure will automatically spin down the hard drives and enter idle mode. This is a safety precaution to protect the hard drives.
- The system must be operated with low pressure rear exhaust installation. The back pressure created by rack doors and obstacles must not exceed 5 pascals (0.5mm water gauge).

The top cover on the rear of the enclosure provides access to the the motherboard. Do not remove the top cover on the rear of the enclosure unless you are performing maintenance recommended by LaCie technical support. The unit must be turned off and allowed to cool down before removing the rear cover. Potential hazards include hot surfaces.

When placing the covers on the DAS, make certain that:

- The front cover is secured by its two front latches (this is to prevent users/operators from accessing service areas).
- The rear cover is screwed into place with its original screws.

EQUIPMENT HANDLING PRECAUTIONS

Observe all conventional ESD precautions when handling LaCie 8big Rack Thunderbolt 2 internal components. Avoid contact with backplane components, module components, etc.

Hard drives are fragile and must be handled with care during removal/replacement.

DATA SECURITY

Any loss, corruption, or destruction of data while using a LaCie hard drive or a LaCie hard drive system is the sole responsibility of the user, and under no circumstances will LaCie be held liable for the recovery or restoration of this data. To help prevent the loss of your data, LaCie highly recommends that you keep TWO copies of your data: one copy on your DAS; and, a second copy on one of the following:

- Direct-attached storage (DAS)
- A second DAS
- Some form of removable storage or archival media

Important Info: 1GB = 1,000,000,000 bytes. 1TB = 1,000,000,000,000 bytes. Once formatted, the actual available storage capacity varies depending upon the operating environment (typically 10-15% less).