



Tips for protecting your equipment

Headlamps



Read the specific recommendations for each lamp in the Instructions For Use and follow the battery compatibility recommendations.



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Use

- Carry your headlamp in a specific pouch to protect the lens.
- After use, lock your lamp to avoid accidental switching on. The locking method is specific to each lamp.

Optimize the life of rechargeable batteries

- Completely charge a battery before first use.
- Do not submerge a rechargeable battery in water.
- After use in a wet environment, remove the rechargeable batteries and let them air-dry away from UV (ultraviolet rays). Avoid proximity to heat sources such as direct sunlight, wood fires, or a radiator.
- Remove the batteries for long term storage of the lamp. Store the batteries in a dry, well-ventilated area, out of direct sunlight.

Lithium ion batteries

- Petzl Lithium Ion batteries are guaranteed for one year or 300 charging cycles. They can be recharged 300 times (after 300 charge cycles, they will still have about 70 % of their initial capacity).
- Lithium Ion batteries lose 10 % of their capacity per year, whether they are used or not, independent of the number of cycles.
- The recharging temperature of a Lithium Ion battery must be between 0 °C and +40 °C to avoid any deterioration.
 - Avoid, for example, recharging a battery with a car charger, under a windshield exposed to direct sunlight.
 - Do not charge a battery inside an enclosure (e.g. a case or box) as this can cause overheating that can damage the battery.
- The use and storage temperature of a Lithium Ion battery must be between -30 °C and +50 °C to avoid any deterioration.
- For the ATEX lamps, the use and storage temperature must be between -30 °C and +40 °C.
- The ideal ambient temperature for recharging, use, and storage of a Lithium Ion battery is about 20 °C.

- A negative temperature below 0 °C reduces the lamp's battery life because the faster discharge dims the light output. However, these are temporary drawbacks. Once the Lithium Ion molecules are re-warmed, the battery regains its previous capacity.
- Elevated temperatures above 50 °C can permanently damage batteries. However, this doesn't happen instantly; repeated use at elevated temperatures must occur to cause damage. Never leave your headlamp under a windshield, a window, or in a trunk if the outside temperature is elevated.



Nickel cadmium (Ni-Cd) and nickel metal hydride (Ni-MH) batteries

- Petzl Ni-MH batteries can be recharged 500 times.
- **WARNING**, completely discharging a Ni-MH rechargeable battery may affect its performance, possibly resulting in the emission of gases and toxic materials. Do not hesitate to recharge a battery that is partially discharged or that has been in storage for more than two weeks.
- Self-discharge in prolonged storage: nickel batteries lose at least 10 % of their capacity after the first day of non-use, then about 20 % per month.
- Nickel batteries must always be charged at a temperature between 10 °C and 40 °C.
- Always use your batteries at a temperature between -20 °C and +60 °C.
- Store your batteries at temperatures between -20 °C and +35 °C.



Maintenance

- After use in a muddy or salty (seaside) environment, rinse with fresh water.
- Remove the batteries.
- Dry the lamp with the battery case open.
- Do not close the battery case of a waterproof lamp with moisture inside.
- Wash the outside of the lamp (lamp head and lens) with lukewarm soapy water (ph neutral, 30 °C maximum).
- Wipe the lens with a soft cloth. Do not wipe the lens with an abrasive product.
- Avoid any prolonged contact of grease with the lens. In case of contact with grease, wipe with a dry cloth and rinse with water.
- Remove and wash the elastic straps in the washing machine, treating as a delicate fabric, without spin cycle.
- The comfort foams are available as replacement parts.

Maintenance, repair

Never dismantle a lamp except to replace the correct spare parts, referenced in Petzl catalogs. These components must be identical to the original parts and be sold with their Instructions For Use.

Retiring products at the end of their lifetime

For your safety, make sure to retire your gear when necessary.

A product must be retired when:

- It is over 10 years old and made of plastic or textiles
- It has been subjected to a major fall or load
- It fails to pass inspection
- Its reliability is in question
- Its entire history is not known (e.g. found or second-hand product)
- When it becomes obsolete due to changes in legislation, standards, technique or incompatibility with other equipment, etc.

Warning: destroy retired equipment to prevent further use.



Petzl travaille sur des solutions alternatives pour le traitement des produits en fin de vie, en vue d'un meilleur recyclage des matières.