

AXIS® RECHARGEABLE LED HEADLAMP



Operating and Maintenance Instructions

ENGLISH:

Battery Charging – See Figure 1

Supplied with headlamp: Self-contained lithium rechargeable battery, micro-USB charging cable.

Princeton Tec suggests using a charger with output of 5V, 1A. This charger will fully charge the battery pack in 3 to 4 hours. Slower charging will be achieved with a charger rated with lower amperage. Some computer USB ports may not have sufficient output to charge this or any USB rechargeable product. Under normal usage, the supplied lithium ion battery pack will last for approximately 1,000 charge / discharge cycles.

- Red battery charge level LEDs indicate battery state. Red LEDs pulse when charging is in progress.
- Charging has completed when both LEDs are illuminated.
- Low Battery Indication: When the battery level reaches 25% the light will blink once indicating the charge is low. Once battery level drops below 20% the light will blink twice and drop to the lowest setting in the current mode. Dial functionality will be disabled to provide the maximum amount of time before the battery is completely drained and the light shuts off.

WARNING ⚠

Do not disassemble; no user serviceable parts.

General Care and Warnings

- Properly charge the battery to maximize its lifespan. Lithium ion batteries do not suffer from a “memory effect,” and for battery longevity it is preferable to charge more frequently if possible, rather than to fully deplete the battery’s charge.
- To avoid damaging your lighting system, use only chargers that meet the approved specifications.
- Axis Rechargeable is not submersible. Submerging in water will damage the lighting system and void the warranty.
- To keep your lighting system looking new, use a mild soap and water solution with a rag or sponge to periodically wipe off dirt.

Switch Operation – See Figure 1

- A single press activates **red mode** at 70% output.
- Double press activates **white spot mode** at 70% output.
- Triple press activates **white flood mode** at 70% output.
- In any mode, the dial is used for dimming.
 - Clockwise dims to 10% output. Once minimum is achieved, further rotation will not do anything.
 - Counter clockwise brightens to 100% output. Once maximum is achieved, further rotation will not do anything.
 - Counter clockwise from flood mode activates **dual-beam mode**.
- A single press occurring more than two seconds after the previous button press will turn the light off.
- **Lock out Mode** to prevent accidental activation: Can only be activated during OFF mode. To enter Lockout mode, press and hold button for three seconds. To indicate success, two red LEDs will flash according to battery voltage chart (see figure 2).

Troubleshooting

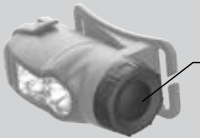
If the Axis Rechargeable fails to light:

- Check the charge state of battery by either 1. Locking out the light by holding down the power button, or 2. Plugging light into power source and observing battery charge level LEDs.
- To reset headlamp if there are any functional errors, press and hold the button for 20 seconds.

Figure 1 – Battery Charging




Figure 2 - Operation



- Press 1x:** Red 70% output
- Press 2x:** White spot 70% output
- Press 3x:** White flood 70% output
- Press 1x from on:** Off






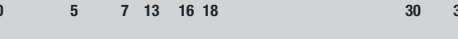
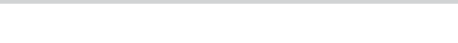
- Press 3 second hold:** Lock-out & battery indicator
If button is pressed while in lock-out mode, one flash of the red LEDs will indicate the light is locked
- Press 3 seconds from lock:** Unlock & battery indicator
Red LEDs will flash indicating battery level

Flashes	Battery Level
4 flashes	80-100%
3 flashes	51-79%
2 flashes	31-50%
1 flash	<30%



- Counter clockwise:** Brightens to 100%
Once maximum is achieved, further CW rotation will NOT do anything
- Clockwise:** Dims to 10% output
Once minimum is achieved, further CCW rotation will NOT do anything
- Counter clockwise from flood mode:** Dual-beam mode
Once maximum is achieved, further CW rotation will NOT do anything

Figure 3 – Performance

Modes	Lumens	Runtime	Beam Pattern	Reserve
DUAL BEAM HIGH	450	1.3h		-
SPOT BEAM HIGH	240	2h		1.2h
SPOT BEAM LOW	55	10h		-
FLOOD HIGH	100	5.5h		1.5
FLOOD LOW	30	15h		-
RED HIGH	5	28h		-
RED LOW	1	50h		-
DISTANCE (m)			0 5 7 13 16 18 30 35	

(ANSI FL-1 Standard)

Runtime is defined as the duration of time from the initial light output value—defined as 30 seconds after the point the device is first turned on—using fresh batteries, until the light output reaches 10% of the initial value.

Reserve time is the duration of time from 10% of initial light output value down to 0.25 lux

USA– International 5-Year Warranty

WARRANTY – Princeton Tec warrants this product to be free from defects in workmanship and materials under normal use for 5 years. This warranty covers all of the component parts of the product except batteries. This warranty does not cover deterioration due to normal wear or damage due to misuse, alteration, negligence, accidents, or unauthorized repair. Princeton Tec will repair or replace parts which are defective in workmanship or materials.

Your authorized Princeton Tec Dealer and Princeton Tec are the only facilities authorized to repair the product. After (3) unsuccessful attempts (within the warranty period) to repair the product, you have the right to elect replacement of the product or a refund of the purchase price less allowance for use of the product. **NO INCIDENTAL OR CONSEQUENTIAL DAMAGES ARE INCLUDED IN THIS WARRANTY.** (Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.) This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Princeton Tec reserves the right to change product specifications without notice.

FOR CALIFORNIA RESIDENTS:

WARNING: This product contains Bisphenol A (BpA) a chemical known to the State of California to cause birth defects or other reproductive harm.

Return Policy

If your light fails to operate, follow these simple steps:

1. To send your light in for repair or replacement, first contact Princeton Tec customer service at **1-800-257-9080** to request an RMA number. Please have your light model, date of purchase and a brief description of the fault you are experiencing. No warranty repairs will be accepted without an RMA number.
2. Return the light to:
Princeton Tec, PO Box 8057 Trenton NJ 08650.
Postage due and freight collect items will not be accepted.
3. Upon receipt your light will be processed in about two weeks. Please allow additional time for return transportation from NJ.