

## QUAD TACTICAL

### LED HEADLAMP

Operating and Maintenance Instructions



0117

#### Battery Installation See Battery Installation Diagram

##### 3 AAA

- Alkaline (LR03)
- Lithium (L92)
- Rechargeable NiCad or NiMH

Princeton Tec cares about the environment and recommends recycling batteries.

Observe proper battery polarity when installing the batteries. Improper installation of the batteries will damage the light and void the warranty.

#### WARNING

- Never mix fresh and used batteries.
- Never mix different battery brands or chemistry types.
- Always remove drained batteries immediately.
- Remove batteries during long periods of storage.

NOTE: Lithium batteries offer extended constant brightness time, extreme cold weather performance, and lighter weight. Rechargeable NiCad or NiMH batteries may result in reduced brightness due to lower nominal voltage.

The Quad battery compartment has a waterproof seal. It is important to keep this seal free from dirt and away from harsh chemicals in order to preserve waterproof integrity. Inspect the seal every time batteries are changed. If dirt is present, wipe gently. With a damp cotton swab and mild soap until dirt is removed.

NOTE: Some battery types can emit hydrogen gas, which can create an explosion potential in sealed devices if it is not vented or removed. The Quad is equipped with a platinum catalyst to remove this gas. Upon severe impact, the catalyst could fracture. If you notice a rattling sound in the headlamp or gray particles in the battery compartment, do not use the headlamp. See the warranty and return policy for more information.

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.

#### Switch Operation - See Switch Operation Diagram

Modes (High, medium, low and flash) are selected by pressing and releasing the button within 1.5 seconds of the previous button press.

There are two ways to turn the Tactical Quad off. You can cycle through the modes until you reach off or if more than two seconds has passed since the previous button press the next press of the button will turn the light off.

#### Circuitry and Power Consumption / Regulated Leds

See Regulated LED diagram

The Tactical Quad uses a sophisticated current-regulating circuit that maintains initial brightness as long as the batteries have sufficient voltage.

#### Troubleshooting

If the Quad Tactical fails to light:

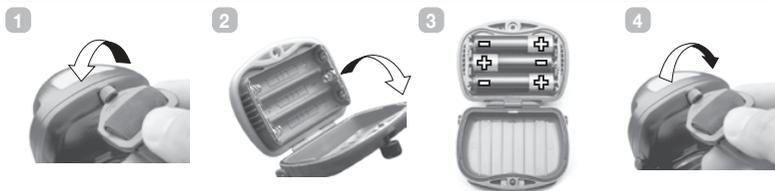
- Check the batteries for proper installation.
- Replace batteries if proper installation is confirmed.
- Check circuit board for water (the seal may have been compromised by improper rear cover installation).

The light will resume normal operation once the water is shaken or blown out and the light is left open until completely dry. If the light has been contaminated with salt water, flush the unit with fresh water and dry as described above.

#### Battery Installation

#### Mise en place des piles

#### Einlegen der Batterien



#### Changing Lenses

#### Changement de lentille

#### Wechsellinse



#### Operation

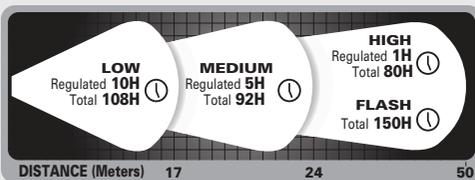
#### Fonctionnement

#### Betrieb



press 1x = Low  
press 2x = Med  
press 3x = High  
press 4x = Flash

4  
Ultrabright  
LEDs



\* Princeton Tec calculates total burn time as the time it takes for the light source to produce a minimum of 0.25 lux at 2 meters. 0.25 lux is about the equivalent of a full moon on a clear night. Regulated burn time is less than overall burn time.

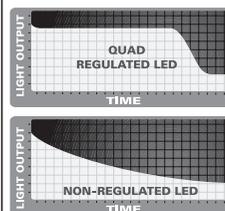
\* Princeton Tec définit la durée totale d'éclairage comme le temps nécessaire à la source lumineuse pour produire un minimum de 0,25 lux à 2 mètres. 0,25 lux équivaut à peu près à la luminosité d'une pleine lune dans un ciel nocturne dégagé. La durée d'éclairage régulé est inférieure à la durée d'éclairage globale.

\* Princeton Tec berechnet die Gesamtbrenndauer bezogen auf eine von der Stirnlampe erzeugte minimale Beleuchtungsstärke von 0,25 Lux in 2 Meter Abstand. 0,25 Lux entsprechen in etwa der Beleuchtungsstärke des Vollmonds in einer klaren Nacht. Die regulierte Brenndauer ist geringer als die Gesamtbrenndauer.

#### Regulated LED

#### LED régulée

#### Regulierte LED



| Battery Type | Power Level |     |      |       | Output Distance (m) | Overall Burn Time (Hours) | Regulated / Constant Burn Time (Hours) |
|--------------|-------------|-----|------|-------|---------------------|---------------------------|--|
|              | Low         | Med | High | Flash |                     |                           |  |
| Alkaline     | ●           |     |      |       | 17                  | 108                       | 10                                     |
|              |             | ●   |      |       | 24                  | 92                        | 5                                      |
|              |             |     | ●    |       | 50                  | 80                        | 1                                      |
|              |             |     |      | ●     | 50                  | 150                       | 12                                     |

\* The times listed in this chart assume you start with fresh batteries and use only one mode.

\* Les durées mentionnées dans ce tableau sont calculées sur la base de l'utilisation de piles neuves et d'un seul mode.

\* Bei den in der folgenden Tabelle aufgeführten Zeiten wird vorausgesetzt, dass Sie neue Batterien und lediglich eine Leuchtstärke verwenden.

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



# Princeton Tec