

LuminTrail

LED Bicycle Light User Manual

Model: TB-1600



READ BEFORE USE

Thank you for choosing LuminTrail. Please read this user manual to completely familiarize yourself with this product. Make sure you understand all functions before hitting the trails.

Cycling in the dark is dangerous inherently. Always make sure the light is firmly secured and the battery is fully charged before you go for a ride. Like all other electronic devices, the light can fail at any unexpected time. It is advised to always keep a backup light and battery pack with you whenever you go on an extended ride. Please note that your LuminTrail light is very bright! Never aim it directly at any oncoming motorists/cyclists.

Your LuminTrail bicycle light is equipped with a high capacity Lithium-ion battery pack. Please fully charge the battery before first use of the light. While the battery pack is double protected, you should always observe the following:

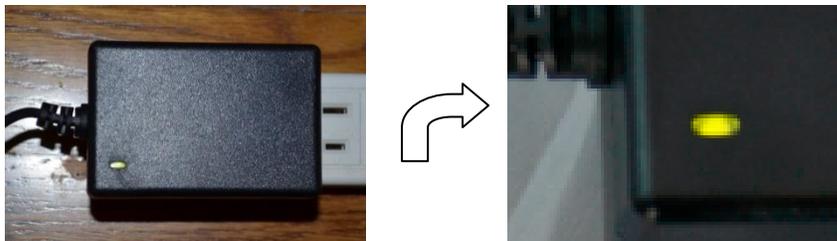
- While charging the batteries, never leave it unattended for a long time.
- Only use the LuminTrail charger to charge the batteries. Using other chargers to charge LuminTrail batteries may cause battery failure and/or other serious damage.

Your LuminTrail bicycle light uses high power LEDs which, especially in turbo/high mode, generate a significant amount of heat. The aluminum light-head is designed to draw most of the excess heat away. The light head may get extremely hot during this process if sufficient air flow is not provided. Please use with caution.

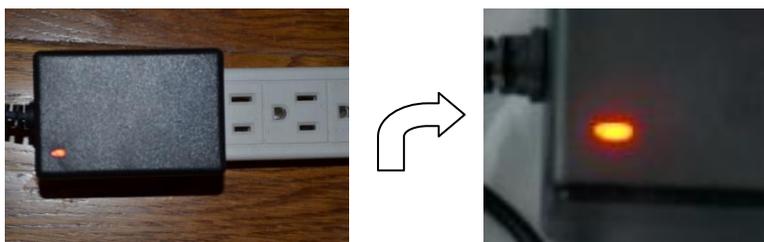
1. Charging the battery pack

The battery pack is shipped half charged. You need to fully charge it before first use.

- Connect the battery to the charger- the charger LED will turn Green.



- Plug the charger into the power outlet – the charger LED will turn Red indicating that the battery is charging. A full charge from empty will take approximately 4 hours.



- Once fully charged the LED will turn Green. Unplug the charger and disconnect the battery.

2. Operating LuminTrail TB-1600 light

- The switch is illuminated while plugged into the battery pack which makes it easy to locate in the dark.



- The light starts in the OFF mode. Push for ON
- Push the switch button for High, Low, Flash



- Push and hold the switch button for two seconds (from any setting) to turn the light OFF.

3. Optional (included) Diffuser Lens

- Carefully unscrew front light bezel.
- Remove the plastic lens. If lens doesn't remove easily, light tapping will loosen from the seal.
- Line up the pins on the lens to the holes near the LED, insert the diffuser lens.
- Replace front bezel, ensuring not to cross thread as you tighten snug. Do not over tighten.

4. Battery Level Indicator

The LuminTrail TB-1600 comes with a 4 stage power meter. As the battery depletes, the backlit switch button will change color from Green-Blue -Red-Flashing Red.

- Green 100%-75%
- Blue 75%-30%
- Red 30%-5%
- Flashing Red < 5%

5. Handle Bar Mounting

- Insert the O-ring into the hook on the front of the light head. You must stretch the O-ring slightly which makes it thinner and then it slips into place easily. (A)



A.



B.

- Place the light head on the handlebars and stretch the O-ring around the bottom of the handle bar. Clip it onto the hook at the rear of the light head. (B) Various O-ring sizes are provided; Use the one which provides the best fit depending on the size of your handle bars. (C)



C.



D.

- Find the most suitable place for mounting the battery. If you have a long enough stem, this is the best place to put it; otherwise you can mount it to your bike frame (D) or handlebars (Opposite side to the light).
- Estimate how much cable length you will require and then fold up the excess cable into battery pouch (E).
- Wrap the Velcro strap around the stem/frame/handle bars, at the same time stuffing the excess cable into the pouch. Plug light cable into the battery cable. (F)



E.



F.



G.

6. Helmet mounting

- Attach the helmet bracket to your helmet by feeding the Velcro straps through your helmets air vents. You can cut the straps shorter if needed. (G)
- Insert the O-ring into the hook on the front of the light head. Place the light head on the helmet mount bracket and stretch the O-ring around the underneath. Clip it onto the clip at the rear of the light head.
- Guide the cable through one of your helmet straps or Velcro it to the back of your helmet in order to ensure that the cable doesn't snag on a low hanging branch or dangle down in front of your face while you are riding.
- Place the battery in a convenient location. Some suggestions are: pocket, attached to hydration pack or inside hydration pack. Plug the light cable into the battery cable. (F)

7. Battery Storage

Disconnect the battery pack from the light head when not using. Store the battery pack fully charged and re-charge it before using the lighting system again. If not used for an extended period of time, please store the battery pack in a cool dry place to avoid excessive discharge.

8. Troubleshooting

Failure	Caused	Solution
No light	Battery is over discharged	Charge the battery
	Battery is not plugged in correctly	Make sure all parts are firmly connected
Running time too short	Battery is not fully charged	Charge the battery
	New battery	Charge the battery
	Very old battery	Replace the battery
	Cold temperature	Keep the battery warm
	Defective charger	Replace the charger
Flicker	Cables not secured	Make sure all parts are firmly connected

9. Technical Data

Specification:

- Finish color: Black
- LED: 4 x CREE XP-G LED
- LED lifespan: above 50,000 hours
- Max output: 1600 lumens
- Lens: Anti-reflection, scratch-resistant, toughened, optical glass lens
- Dual lenses included - one clear lens for best throw; one diffusing lens for smooth & floody beam
- Modes: 3-level adjustable brightness, flashing and over-heat protection functions
- Output levels: Max: 1600 lumens Low: 800 lumens
- Runtime: (LuminTrail 5.2Ah battery pack) **Max:** Nearly 2.5 hours **Low:** 5 hours **Flash:** 6.5 hours.
- Power indicator: 3-color/3-modes LED indicator to display battery capacity
- Battery capacity/Voltage: LuminTrail 5.2 Ah, 8.4V (4X18650 Li-ion battery pack, waterproof designed)
- Charge time: 4 hours (LuminTrail 5.2Ah battery pack)
- Charger: 110 Volt to 240 Volt
- Shell material: 6061-T6 Aluminum alloy
- Surface treatment: Premium Type III hard-anodized anti-abrasive finish
- Waterproof grade: IPX6
- Weight: 125G without battery pack, 364G with battery pack
- Package Includes: light head, battery pack, charger, helmet mount, extension cable, O-rings, carry pouch
- Light is covered by five year USA warranty. Battery pack is warranted for 6 months.