

FENIX

Illuminate Your Adventure

USER MANUAL



BTR20

DUAL DISTANCE BEAM

Instant Turbo with the remote pressure switch

MAX 800 LUMENS

Features

- ✦ Utilizes Cree XM-L (T6) neutral white LED, max 800 lumens output
- ✦ Instant Turbo with the remote pressure switch
- ✦ BA2B rechargeable battery pack, battery switch-out system
- ✦ Aspherical reflector with a wide beam angle
- ✦ DUAL DISTANCE BEAM SYSTEM
- ✦ 4 brightness levels and one flashing mode
- ✦ Digitally regulated output - maintains constant brightness
- ✦ Low power warning on the headlight
- ✦ Quick-attach O-ring mounting straps sized for 20mm-35mm handlebars
- ✦ Easy, secure adjustment of the light's direction
- ✦ Made of aluminum alloy and quality plastic

Components Included



Note: the large O-ring mounting straps are sized for 30mm-35mm, while the medium ones for 24mm-30mm and the small ones for 20mm-24mm (the above sizes are only for your reference)

Technical Parameters

	General Mode				Flashing Mode
	Turbo	High	Mid	Low	
Output	800 lumens	400 lumens	200 lumens	80 lumens	200 lumens
Runtime	2h	4h 40min	10h	23h	/
Max Distance	167m				
Water Resistant	IPX-6				
Weight	Headlight:143g Battery Pack:168g				
Max Input Voltage	12.8V				
Dimensions	Headlight: 69.2mm (Length) ×44.2mm (Width) ×56.6mm (Height) Battery Pack: 87mm (Length) ×59mm (Width) ×37mm (Height)				

Notice: The above-mentioned parameters (lab tested by Fenix using BA2B battery pack) are approximate and may vary between the bike lights, batteries and environments.

Battery Specifications

Type	Specification	Usability	
Fenix BA2B	2*18650 included	Recommended	✓
Fenix BA4C	Able to install 2*18650/4*CR123A batteries	Recommended	✓
Fenix BA4B	4*18650 included	Recommended	✓

Note: 18650 Li-ion batteries are powerful cells designed for commercial applications and must be treated with caution and handled with care. Quality batteries with circuit protection will reduce the potential for combustion or explosion but cell damage or short circuiting are potential risks the user assumes. We recommend using Fenix BA2B or BA4B battery pack.

Operation

- ✦ Press and hold the headlight power button will turn the light on; press and hold the power button for two seconds to turn it off.

- ✦ With the bike light on, cycle through the four brightness levels in the order of Turbo → Low → Medium → High by a single press on the headlight power button; To activate the flashing mode, double press the headlight power button; a single press on the headlight button again will return it to general mode.

- ✦ With the bike light off, pushing the remote switch button will activate the light in the highest level that the power can support until the switch button is released. With the bike light on, pushing the remote switch to activate the highest brightness level possible with the remaining battery power. Releasing the switch returns the BTR20 to the previous level: If the current level is the brightest possible, the remote switch activates the next level down until released.

Charge the battery pack

- ✦ Plug the cable from the charger into the connector of the battery pack. The charger and the battery pack will be connected when a noticeable "click" is heard.
- ✦ When charging, the charger indicator will be red and it will turn green when charging is completed.
- ✦ Unplug the cable of the charger from the connector of the battery pack by twisting the connectors and pulling them outward.

Note:

- ✦ As with any performance light, the BTR20 builds up heat when run in Turbo for an extended period. Intelligent circuitry in the BTR20 downshifts the light to High to guard against overheating.
- ✦ The BTR20 retains the last brightness level used (not flashing) even after batteries are changed.
- ✦ When shifting from Turbo to Low, the BTR20 dims to allow the rider's eyes to adjust to conditions.
- ✦ If available power won't allow operation on High, the BTR20 cycles through Mid and Low brightness levels.

Low- power Warning Function

As battery power is utilized, the BTR20's low-power indicator turns from green to red. Fresh batteries are needed to return to normal and extended operation even though the light will remain illuminated until all battery power is used.

Note: When using four CR123A batteries as a back-up power supply, the low-power warning function is not a reliable indicator of power status.

Mounting Instructions

Mounting the Headlight on a Handlebar



- ✦ Twist the headlight to keep the light holder perpendicular to the headlamp.
- ✦ Choose one of the three "O-ring" style mounting straps that fit the handlebar diameter and place the side without the tab into the light holder with the Fenix logo.
- ✦ Place the headlight /mounting assembly on the handlebar (with the logo side at the front), pull /stretch the tab side of the mounting strap under the handlebar, towards the back and loop it over and into the back slot.
- ✦ Depending on your lighting needs, adjust the direction of the headlight before testing the BTR20's power and functions.

Note: Tighten or loosen the headlight-to-mount assembly by turning the Phillips screw under the lamp holder.

Mounting the Headlight on a Helmet



- ✦ Twist the headlight to keep the light holder perpendicular to the headlight.
- ✦ Choose a medium-sized O-ring mounting strap and place the side without the tab into the light holder with Fenix logo.
- ✦ Place the headlight/mounting assembly on the helmet mount, pull /stretch the tab side of the mounting strap under the helmet mount, towards the back and loop it over and into the back slot.
- ✦ Position the helmet mount as close to the centerline of the helmet as possible, and feed each strap into and out of two helmet vents;
- ✦ Circle each strap back to the upper edge of the corresponding clamp.
- ✦ Fasten the straps by inserting them to the clamps.

Mounting the Battery Pack

- ✦ Circle each Velcro strap of the battery pack back to the upper edge of the bike frame: Thread the Velcro straps through two slots on the bottom of the battery pack, and secure the battery pack to the bike frame.
- ✦ Plug the cable from the headlight into the connector of the battery pack. The headlight and the battery pack will be connected when a noticeable "click" is heard.
- ✦ Unplug the cable of the headlight from the connector of the battery pack by twisting the connectors and pulling them outward.

Battery Pack Power

- ✦ To check the battery pack's remaining power, press the power button: LED indicators will light for five seconds.
- ✦ The LED indicators blink when the battery capacity is no more than 10%.

Safety Tips

Important Notice

- ✦ BTR20 is a high-intensity lighting device and capable of causing eye damage, avoid shining the light directly into the eyes.
- ✦ Avoid touching the metal parts of the BTR20 as LED lights accumulate heat when powered up.
- ✦ Waterproof to IPX-6, BTR20 can be used in humid conditions but is not suited for water immersion.
- ✦ Please keep it out of the reach of children.

Night Riding Tips

- ✦ Never ride alone;
- ✦ Always let someone know where you are;
- ✦ Wear a helmet and reflective clothing;
- ✦ Carry an auxiliary light and some emergency supplies;
- ✦ Make sure the headlight, bike mount and battery pack are securely fastened.

Daily Maintenance

- ✦ Carefully unplug the cable of the headlight from the connector of the battery pack by twisting the connectors and pulling them outward to avoid damage.
- ✦ When not in use, disconnect the cable from the headlight from the battery connector.
- ✦ When storing for an extended period of time, dismantle the light and battery pack.
- ✦ Please don't disassemble the sealed parts, as doing so can cause damage to the BTR20 and will void the warranty.
- ✦ For safety reasons, the battery pack is not shipped in a fully- charged condition. Please charge it before first use.
- ✦ Please disconnect the battery pack from the headlight if it will not be used for an extended period of time. Store the battery pack in cool, dry and well-ventilated areas. Recharge the battery pack if it has not been used for an extended period of time.

Product Warranty

We will replace products afflicted with manufacturing defects within 15 days of purchase and repair a light free of charge within 24 months of purchase, while the BA2B battery pack within 12 months of purchase, if problems develop with normal use; if the repair for the bike light is required after 24 months from the date of purchase, we will charge for parts. The same goes for the repair for the BA2B battery pack after 12 months from the date of purchase. The total repair fee is dictated by the cost of the replaced materials.

Product Registration

We kindly suggest that you register your product on the official website of Fenixlight Limited (www.fenixlight.com). You'll receive an extra six months of warranty coverage once you have successfully registered. By participating in an optional customer survey, you are entered in a drawing for free Fenix products.