

Fenix BTR20 Bike Light

The Fenix BTR20 Bike Light builds on the BT platform with even greater output, power supply options and remote Turbo activation. Featuring the Dual Distance Beam system and neutral white output up to 800 lumens, the 18650-powered BTR20 allows easy battery exchange to keep rolling longer and stronger.

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:

1. BTR20 Headlight
2. BA2B Battery Pack
3. Recharger
4. Six O-ring Mounting Straps (two large, two medium and two small)

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

5. Helmet Mount
6. Extension Cable
7. User Manual, Warranty Card

Battery Specifications

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

batteries			
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.

Technical Parameters

	General Mode				Flashing Mode
	Turbo	High	Mid	Low	
Output	800lumens	400lumens	200lumens	80lumens	200lumens
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) ×59.6mm (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.

Operation

1. A single press of the headlight power button will turn the light on; press and hold the power button for two seconds to turn it off.
2. 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.

3. 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 button is released.

With the bike light on, if the current output level is the next level after the highest one, it will enter into the highest level when pressing the remote switch button; release the switch button, it will return to the current output level.

Conversely, if the current level is the highest one, it will enter into the next level when pressing the remote switch button; release the switch button, it will return to the current output level.

Note:

1. As with any performance light, the BTR20 builds up heat when run in Turbo for an extended period. Intelligent circuitry in the BTR20 down shifts the light to High to guard against overheating.
2. The BTR20 retains the last brightness level used (not flashing) even after batteries are changed.
3. When shifting from Turbo to Low, the BTR20 dims to allow the rider's eyes to adjust to conditions.
4. 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

1. Twist the headlight to keep the light holder perpendicular to the headlamp.
2. 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.
3. 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.
4. 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

1. Twist the headlight to keep the light holder perpendicular to the headlight.
2. Choose a medium-sized O-ring mounting strap and place the side without the tab into the light holder with Fenix logo.
3. 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.
4. 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;
5. Circle each strap back to the upper edge of the corresponding clamp.
6. Fasten the straps by inserting them to the clamps.

Mounting the Battery Case

1. Circle each Velcro strap of the battery case protective sleeve back to the upper edge of the bike frame □ Thread the Velcro straps through two slots on the bottom of the battery case protective sleeve, and secure the battery case protective sleeve to the bike frame.
2. Plug the cable from the headlight into the connector of the battery case. The headlight and the battery case will be connected when a noticeable “click” is heard.
3. Unplug the cable of the headlight from the connector of the battery case by twisting the connectors and pulling them outward.

Safety Tips

Important Notice:

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

Night Riding Tips:

1. Never ride alone
2. Always let someone know where you are
3. Wear a helmet and reflective clothing
4. Carry an auxiliary light and emergency supplies
5. Make sure the headlight, bike mount and battery case are securely fastened

Daily Maintenance

1. Carefully unplug the cable of the headlight from the connector of the battery case by twisting the connectors and pulling them outward to avoid damage.
2. When not in use, disconnect the cable from the headlight from the battery connector and take out the batteries to avoid damage from battery leakage and the potential for battery explosion.
3. When storing for an extended period of time, dismantle the light, battery case and the battery case protective sleeve.
4. Please don't disassemble the sealed parts, as doing so can cause damage to the BTR20 and will void the warranty.

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 if problems develop with normal use; if repair is required after 24 months from the date of purchase, we will charge for parts. 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.

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