Fenix Bike Light BT20

Features:

Utilizes Cree XM-L□T6 □neutral white LED, max 750 lumens output

Powered by two 18650 rechargeable Li-ion batteries or four CR123A Lithium batteries

Uses aspherical reflector with a wide beam angle

Anti-glare lens design produces DUAL DISTANCE BEAM illumination

4 brightness levels and one flashing mode

Digitally regulated output - maintains constant brightness

Low power warning indicator on the headlamp

Quick to attach and detach using O-ring mounting straps sized for 20mm-35mm handlebars

Able to adjust the direction of the headlamp freely

Made of aluminum alloy and quality plastic

Parts Included

1. BT20 Headlamp

2. BA4C Battery Case

3. Battery Case Protective Sleeve with frame attachment straps

4. Six O-ring mounting straps (two large, two medium and two small)

Note: the large O-ring mounting strap is sized for 30mm-35mm handlebar, while the medium ones for 24mm-30mm handlebars and the small ones for 20mm-24mm handlebars□the above sizes are only for your reference□.

5. Helmet Mount

6. Extension Cable

7. User Manual, Warranty Card

Battery Specifications

Type	Dimensions	Nominal Voltage	Usability	
Fenix ARB-L2	18650	3.7V	Recommended	√
Non-rechargeable Battery (Lithium)	CR123A	3V	Recommended	√
Rechargeable Battery (Li-ion)	16340	3.7V	Banned	×
Rechargeable Battery (Li-ion)	18650	3.7V	Cautious*	□
Rechargeable Battery (LiFePO$_4$)	16340	3.2V	Usable	√
Rechargeable Battery (LiFePO$_4$)	18650	3.2V	Banned	×

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 ARB-L2 18650 batteries.

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Technical Parameters

	General Mode				Flashing Mode
	Turbo	**High**	**Mid**	**Low**	
Output	750lumens	450lumens	300lumens	100lumens	300lumens
Runtime	1h 50min	3h 45min	6h 20min	19h 30min	14h
Usage Scenario	Mountain biking	Cross country	Urban utility	Commuting	Warning
Max Distance	156m				
Water Resistant	IPX-6				
Weight	121g (excluding batteries and accessories)				
Max Input Voltage	12.8V				
Dimensions	Headlamp: 67.8mm (Length)*42.9mm (Width)*56.6mm (Height) Battery Case: 100mm (Length)*27.5mm (Width)*56mm (Height)				

Notice: The above-mentioned parameters (lab tested by Fenix using ARB-L2 18650 batteries) are approximate and may vary between the bike lights, batteries and environments.

Operation Instruction

1.   To turn the light on/off, press and hold the headlamp power button for 0.8 seconds.

2. Cycle through the four brightness levels in the order of Turbo →Low → Medium →High by a single press on the headlamp power button;

3. To activate the flashing mode, double press the headlamp power button; a single press on the headlamp button will return it to general mode.

Notice:

1. As with any performance light, the BT20 builds up heat when run in the turbo brightness level for an extended period. Intelligent circuitry in the BT20 downshift the light to guard against overheating.

2. The BT20 retains the last brightness level used (not flashing mode) even after batteries are changed.

Low Power Warning Function

The bike light has a low power warning function. The power indicator on the headlamp will turn

Mounting Instructions

Mounting the Headlamp on a Handlebar

1. Twist the headlamp 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 Fenix logo.
3. Place the headlamp /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 headlamp before testing the BT20's power and functions.

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

Mounting the Headlamp on a Helmet

1. Twist the headlamp to keep the light holder perpendicular to the headlamp.
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 headlamp /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. Turn the knob on the top of the battery case in the direction of the arrow and open the battery case.

2. Insert the batteries into the battery case observing the correct polarity as the yellow mark indicates, and turn the knob to lock the battery case.

3. Put the battery case into the protective sleeve of the battery case.

4. 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.

5. Plug the cable from the headlamp into the connector of the battery case. The headlamp and the battery case will be connected when a noticeable "click" is heard.

6. Unplug the cable of the headlamp from the connector of the battery case by twisting the connectors and pulling them outward.

Safety Tips

Important Notice:

1. BT20 is a high-intensity lighting device capable of causing eye damage. Avoid shining the light directly into the eyes.

2. Avoid touching the metal parts of the BT20 as LED lights accumulate heat when powered up.

3. Waterproof to IPX-6, BT20 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 headlamp, bike mount and battery case are securely fastened

Daily Maintenance

1. Carefully unplug the cable of the headlamp 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 headlamp 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 BT20 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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- □□ 2 □ 18650 □□□□□□□□□ 4 □ 3V CR123A □□□
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6、电池盒
7、产品的包装材料

电池选择

电池型号	电池规格	电池电压	是否支持	
Fenix ARB-L2	18650	3.7V	可充	√
锂离子充电池	CR123A	3V	一次	√
锂离子充电电池	16340	3.7V	可充	×
锂离子充电电池	18650	3.7V	不可充电	可
磷酸铁锂充电池	16340	3.2V	可充	√
磷酸铁锂充电池	18650	3.2V	可充	×

注：18650 锂离子（Li-ion）充电电池为最佳电源，能让手电筒的各项性能充分发挥，使各项参数达到最佳效果，请选择正规厂家的优质电池，否则可能会影响手电筒的使用寿命，甚至可能引发危险。为了您的安全建议选用 Fenix 公司的 ARB-12 款 18650 充电池

参数规格

	输出功率				充电盒供电模式
	高亮	中亮	低亮	爆闪	
亮度	750 流明	450 流明	300 流明	100 流明	300 流明
使用时间	1 小时 50 分	3 小时 45 分	6 小时 20 分	19 小时 30 分	14 小时
抗跌落度	抗跌落级	抗跌落级	抗跌落级	抗跌落级	防水
射程距离	156 米				
防水等级	IPX-6				
重量	121 克（不含电池及充电盒）				
充电盒供电电压	12.8V				
尺寸 长：67.8 毫米 宽（头）×42.9 毫米 宽（尾）×56.6 毫米 充电盒 长（头）100 毫米 宽（头）*27.5 毫米 宽（尾）*56 毫米 充电盒					

以上所有数据均为实验室采用 Fenix 公司的 ARB-L2 款 18650 锂电池测试所得结果（实际使用中可能会因为电池类型、电池新旧及使用环境有所差异）

包装清单

1、探测器的灵敏度在 0.8 米以上/设定的范围。

2、开盖、底座相连的机关，盒盖 → 螺丝 → 底座 → 电池需检测是否连接正常，牢固。

3、底座和盒盖相连后，查看整体的稳固性，螺丝是否有松动，整体是否牢固。

贴膜工艺

一、贴膜前的准备

1、将产品放置于操作台上，旋转 90°。

2、检查产品表面是否有灰尘、油污或 O 型圈，O 型圈应安装到位，确保产品 LOGO 清晰可见。

3、检查产品表面是否有划痕、LOGO 是否清晰、是否有 O 型圈缺失等问题，如有则需更换或返工处理。

4、确认产品表面清洁干净，无任何杂质后方可贴膜。

将准备好的膜片对准产品表面，从一端开始缓慢贴合，避免产生气泡。

二、贴膜的操作步骤

1、将产品放置于操作台上，旋转 90°。

2、检查 O 型圈，O 型圈应安装到位，确保产品 LOGO 清晰可见。

3、将 O 型圈安装到位，确保产品表面清洁干净。

4、将膜片对准产品表面，从一端开始缓慢贴合。

5、用刮板从中间向两边刮平，排出气泡。

6、检查贴膜效果，确保无气泡、无褶皱。

三、贴膜的注意事项

1、贴膜过程中需保持手部清洁，避免污染膜片。

2、贴膜时需注意膜片与产品表面的对齐，避免贴歪，如有歪斜需重新贴合，确保贴膜效果美观整齐。

3、贴膜后需检查是否有气泡或褶皱。

4、如有气泡需用刮板排出，如有褶皱需重新贴合，确保贴膜效果平整。

5、贴膜完成后需放置一段时间，确保膜片与产品"胶"合牢固后方可进行下一步操作。

6、贴膜过程中如遇到膜片损坏或污染，需及时更换新膜片，确保贴膜质量。

包装工艺

一、包装前准备

1、检查产品是否完好无损，确认产品功能正常后方可包装。

2、准备好包装材料，包括包装盒、说明书、保修卡、合格证等。

3、本产品防水等级为 IPX-6，浸泡水中或长时间在水中使用会对产品造成损坏，请勿浸泡。
4、本产品为电子产品，请妥善保管。

【电池使用注意事项】
1、请勿将电池正负极接反。
2、请勿将电池短路、拆解。
3、请勿将电池投入火中。
4、请勿将新旧电池或不同品牌电池混用。
5、请将电池放在儿童无法接触的地方。

保修说明

1、我们将对由生产造成的质量问题承担保修责任，请将带有问题的产品交由销售商处理，或直接寄回本公司维修处理。
2、本保修服务不涵盖由于正常磨损、不当使用、误用、疏忽、事故、改装、不当维修等原因造成的损坏。
3、凡自行拆解、改装产品，以及人为因素造成损坏的，不在保修范围之内。
4、因产品质量问题产生的邮寄费用由本公司承担，其余情况自理。

保修期限

1、15 年免费保固：Fenix 手电筒自购买之日起 15 年内，如在正常使用情况下出现质量问题或损坏，可免费维修处理,此项服务不包括充电器、电池、开关、电子配件、按键、硅胶圈等易损易耗配件。
2、2 年质量保证：Fenix 手电筒自购买之日起 2 年内，如在正常使用情况下出现质量问题，可免费更换新产品。
3、充电器、电池等配件享有 2 年的质量保证期，Fenixlight Limited 对于电子配件提供质量保证期内的免费保修或更换服务。
4、在维修过程中，Fenixlight Limited 保留以同等价值的产品替换已停产或无库存产品的权利，以及对所有维修细节问题的最终解释权。
5、更多信息请登录 Fenixlight 官网：www.fenixlight.com。本保修条款最终解释权归本公司所有。第 6 页产品保修卡内容，请保留 2 年的质量保证期保留。