Fenix HM60R Headlamp

Technical Parameters

ANSI/PLATO FL1	Spotlight Mode				Functional Mode			
	Turbo	High	Med	Low	High	Med	Red	SOS
 Output	1200 lumens	350 lumens	130 lumens	30 lumens	350 lumens	70 lumens	5 lumens	5 lumens
 Runtime	2 hours *	8 hours	18 hours	48 hours	18 hours	80 hours	100 hours	200 hours
 Distance	116 meters	60 meters	36 meters	18 meters	33 meters	15 meters	5 meters	5 meters
 Intensity	3400 candela	913 candela	330 candela	78 candela	268 candela	55 candela	7 candela	7 candela
Impact Resistance	2 meters							
Submersible	IP68							

Note: According to the ANSI/PLATO FL1 standard, the above specifications are from the results produced by Fenix through its laboratory testing using one Fenix ARB-L18-2600 Li-ion battery under the temperature of 21±3℃ and humidity of 50% - 80%. The true performance of this product may vary according to different working environments and the actual battery used.

*The Turbo output is measured in a total of runtime including output at reduced levels due to temperature or protection mechanism in the design.

Product Features

- 1200 lumens maximum output, 116 meters maximum beam distance.

- Luminus SST40 white light LED, XP-G2 neutral white light LED; with a lifespan of 50,000 hours.

- Included a Fenix ARB-L18-2600 18650 rechargeable LI-ion battery and compatible with two CR123A Lithium batteries.

- Spotlight, floodlight and red light combined.

- Frequency sensing: the brightness changes along with the speed.

- Hidden inner waterproof USB Type-C charging interface.

- A large all-in-one side switch.

- Made of quality PC and aluminum, lightweight and wear-resistant.

- Size: 3.35'' x 1.77'' x 1.77'' / 85 x 45 x 45 mm.

- Weight: 5.54 oz / 157 grams (including battery and headband).

Operating Instruction

On

Press and hold the switch for 0.5 seconds to enter spotlight mode, double click the switch to enter functional mode.

Off

Press and hold the switch for 0.5 seconds to turn off the lamp.

Mode Switching

With the lamp switched on, press and hold the switch for 1.2 seconds to switch to another mode.

Output Selection

In Spotlight mode, with the lamp switched on, single click the switch to cycle through

Low→Med→High→Turbo.

In Functional mode, with the lamp switched on, single click the switch to cycle through

Red→Med→High→SOS.

Lock/Unlock

Lock: when the lamp is switched off, press and hold the switch for 3 seconds, the lamp will blink red 3times to indicate locked status.

Unlock: when the lamp is locked, press and hold the switch for 3 seconds, the lamp will be activated with 3 one-second red blinks and activated on Red Light mode.

In locked status, clicking the switch will activate 3 one-second red blinks to indicate locked status.

Intelligent Memory Circuit

The headlamp memorizes the last selected output on spotlight mode. When turned on again the previously used output will be recalled. Each time the functional mode is entered with red light.

Battery Specifications

Type	Dimensions	Nominal Voltage	Usability	
Fenix ARB-L18 Series	18650	3.6V	Recommended	√√
Non-rechargeable Battery (Lithium)	CR123A	3V	Usable	√
Rechargeable Battery (LiFePO4)	16340	3.2V	Usable	√
Rechargeable Battery (Li-ion)	18650*	3.6V	Caution	!
Rechargeable Battery (Li-ion)	16340	3.6V	Banned	×
Rechargeable Battery (LiFePO4)	18650	3.2V	Banned	×

Warning: *18650 Li-ion batteries are powerful cells designed for commercial applications and must be treated with caution and handled with care. Only use 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.

Battery Replacement

Unscrew the cap to insert the battery in accordance with the polarity marks, then screw the cap back on.

Frequency Sensing

There is frequency sensing on Med and High output levels in spotlight mode.

1. Set frequency of step 150 times/minute as the standard. From 150 times/minute to 220 times/minute, the brightness increases proportionally with the frequency of step. When the frequency of step reaches 220 times/minute, the brightness will increase to 150% of normal brightness; when the frequency of step exceeds 220 times/minute, the brightness will remain at 150% of normal brightness.

2. When the frequency of step is lower than 150 times/minute, from 150 times/minute to 80 times/minute, the brightness decreases proportionally with the frequency of step. When the frequency of step reaches 80 times/minute, the brightness is reduced to 70% of the normal brightness; when the frequency of step is lower than 80 times/minute, it will maintain 70% of the normal brightness. When the frequency is detected to decrease, the brightness starts to decrease gradually after 10 seconds of delay.

Dual Distance Beam of Spotlight

The spotlight features Dual Distance Beam that provides long-range illumination while maintaining up-close visibility.

Lamp Holder Angle Adjustment

The angle adjustment range of the lamp holder is 90° up and down.

Charging

1. Uncover the cap and plug the USB Type-C side of the charging cable into the charging port of the lamp.

2. The indicator will display red while charging, and will turn to green when fully charged.

3. The normal charging time of the included Fenix ARB-L18-2600 18650 rechargeable Li-ion battery is about 3 hours with a 5V/2A adapter.

4. When charging is complete, replace the anti-dust cap to ensure waterproof and dustproof ability.

5. Recharge a stored headlamp every four months to maintain optimal Li-ion battery performance.

6. When charging, the Low output level can be used, but charging time will be prolonged

Battery Level Indication

With the lamp switched off, single click the switch to check the battery status, the indicator will last for 3 seconds.

Green light on: saturated 100% - 85%

Green light flashes: sufficient 85% - 50%

Red light on: poor 50% - 25%

Red light flashes: critical 25% - 1%

Note: This only works with Fenix ARB-L18 Series battery.

Intelligent Overheat Protection

The lamp will accumulate a lot of heat when used at Turbo output level for extended periods. When the lamp reaches a temperature of 55°C or above, the lamp will automatically step down a few lumens to reduce the temperature. When the temperature drops below 55°C, it will then allow the user for the reselection of Turbo mode.

Low-voltage Warning

When the voltage level drops below the preset level, the headlamp is programmed to downshift to a lower brightness level until Low output is reached. When this happens in Low output mode, the lamp blinks 3 times every 5 minutes to remind you to timely recharge or replace the battery.

Note: This only works with Fenix ARB-L18 Series battery.

Headband Assembly

Note: The headband is factory assembled by default.

1. Adjust the headband by sliding the buckle to the required length.

2. Assemble top headband to better fix the headlamp. First fix the headband mount to the headband, then fix one side of the top headband to the headlamp holder, and the other end to the top headband mount.

Usage and Maintenance

- Disassembling the sealed head can cause damage to the lamp and will void the warranty.
- Fenix recommends using an excellent quality Fenix battery.
- If the lamp will not be used for an extended period, remove the battery, or the lamp could be damaged by electrolyte leakage.
- Take out the battery to prevent accidental activation during storage or transportation.
- Long-term use can result in O-ring wear. To maintain a proper water seal, replace the ring with an approved spare.
- Periodic cleaning of the battery contacts improves the lamp's performance as dirty contacts may cause the lamp to flicker, shine intermittently or even fail to illuminate for the following reasons:

    A: The battery needs replacing.
    Solution: Replace the battery (Ensure battery is inserted according to the manufacturer's specifications).
    B: The contact point or contact of the battery or headlamp is dirty.
    Solution: Clean the contact points with a cotton swab soaked in rubbing alcohol.

If the above methods don't work, please contact the distributor.

Included

Fenix HM60R Headlamp, Fenix ARB-L18-2600 Li-ion battery, USB Type-C charging cable, Spare O-ring, User manual, Warranty card

Warning

- The headlamp is a high-intensity lighting device capable of causing eye damage to the user or others. Avoid shining the lamp directly into anyone's eyes.

- This headlamp will accumulate a lot of heat when used for extended periods, resulting in a high temperature of the headlamp shell. Pay attention to safe use to avoid scalding.

- Do not shine an object at close range, so as to avoid burning the object or causing danger due to high temperature.

- The LED of this headlamp is not replaceable; so the entire lamp should be replaced when the LED reaches the end of its life.

- If any of the information provided in this manual is changed, the new version of the manual shall prevail; if your included user manual is an old one, it acquiesces that we won't send a new manual.