



HM70R

TRIPLE LIGHT SOURCE RECHARGEABLE
21700-POWERED HEADLAMP



**1600 LUMENS MAXIMUM
OUTPUT**



**100 HOURS ULTRA-LONG
MAXIMUM RUNTIME**

(English) Fenix HM70R Headlamp

- 1600 lumens maximum output; 100 hours ultra-long maximum runtime.
- A Luminus SST40 white light LED, an XP-G2 HE neutral white LED and two 2835 red light LEDs.
- Included a 21700 Li-ion battery, a 18650 Li-ion battery can be used as well (together with an AL-F18 battery holder).
- White, neutral white and red lights combined.
- Toughened ultra-clear glass lens with an anti-reflective coating.
- Hidden USB Type-C charging port supports 2A charging current.
- Large thumb-sized switch for easy and fast operation.
- Digitally regulated circuit for maintaining a stable output.
- Size: 3.72" x 2.01" x 1.81" / 94.5 x 51 x 46 mm.
- Weight: 7.27 oz / 206 grams (including battery and headband).

Operating Instruction

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

Mode Switching
With the lamp switched off, single click the switch for 0.5 seconds to enter General mode, and double click the switch to enter Functional mode.
Press and hold the switch for 1.2 seconds to enter the other mode.

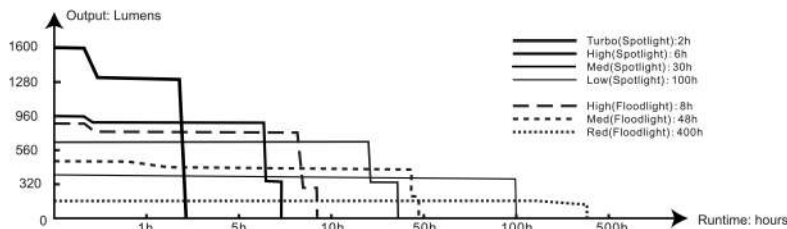
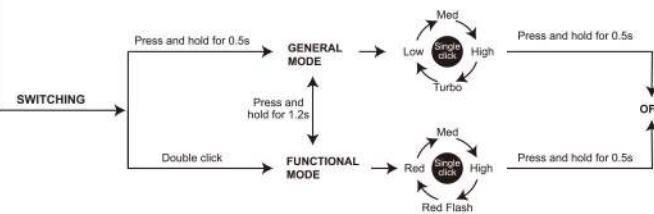
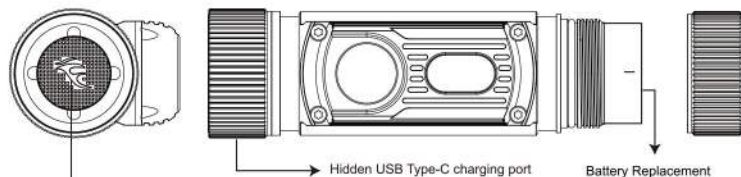
Output Selection
In General mode, single click the switch to cycle through Low→Med→High→Turbo.
In Functional mode, single click the switch to cycle through Red→Med→High→Red Flash.

Lock/Unlock
Lock: when the lamp is switched off, press and hold the switch for 3 seconds, the lamp will blink red 3 times 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. When turned on again the previously used output will be recalled.

Battery Replacement

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



Technical Parameters

ANSI/PLATO FL1	GENERAL MODE				FUNCTIONAL MODE			
	Turbo	High	Med	Low	Red	Med	High	Red Flash
Output	1600 lumens	500 lumens	150 lumens	30 lumens	5 lumens	70 lumens	400 lumens	5 lumens
Runtime	2 hours *	6 hours	30 hours	100 hours	400 hours	48 hours	8 hours	800 hours
Distance	186 meters	105 meters	53 meters	26 meters	5 meters	16 meters	38 meters	5 meters
Intensity	8667 candela	2752 candela	690 candela	170 candela	8 candela	68 candela	352 candela	8 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-L21-5000 Li-ion battery under the temperature of 21±3°C 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 total of runtime including output at reduced levels due to temperature or protection mechanism in the design.

Battery Specifications

Type	Dimensions	Nominal Voltage	Usability
Fenix ARB-L21 Series	21700	3.6V	Recommended √
Fenix ARB-L18 Series	18650	3.6V	Usable (with AL-F18 battery holder) ✓
Rechargeable Battery (Li-ion)	16340	3.6V	Banned ×
Rechargeable Battery (Li-ion)	18650	3.6V	Banned ×
Rechargeable Battery (LiFePO4)	16340	3.2V	Banned ×
Rechargeable Battery (LiFePO4)	18650	3.2V	Banned ×

Warning: 21700 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.

Charging

Indication: The indicator on the battery case will display red while charging, and will turn to green when fully charged.

* This only works with Fenix ARB-L21-5000 battery.

Note:

- Uncover the anti-dust cap and plug the USB Type-C side of the charging cable into the charging port of the lamp.
- The normal charging time of the included Fenix ARB-L21-5000 is about

- 4 hours with the lamp being switched off.
- When charging is complete, replace the anti-dust cap to ensure the waterproof and dustproof ability.
- Recharge a stored headlamp every four months to maintain optimal Li-ion battery performance.
- When charging, the Med output level of General mode can be used. The headlamp will not automatically power on after full charging.

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-L21-5000 battery.

Intelligent Overheat Protection

The lamp will accumulate a lot of heat when used at relatively high output levels for extended periods. When the lamp reaches a temperature of 65°C or above, the lamp will automatically step down a few lumens to reduce the temperature. When the temperature drops below 65°C, it will then allow the user for the reslection of the modes.

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 battery level



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indicator blinks to remind you to timely recharge or replace the battery.
Note: This only works with Fenix ARB-L21-5000 battery.

Headband Assembly

- The headband is factory assembled by default.
- Adjust the headband by sliding the buckle to the required length.

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.
- Loosen the cap or take out the battery to prevent accidental activation during storage or transportation.
- 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 HM70R headlamp, ARB-L21-5000 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.
- The LED of this headlamp is not replaceable; so the entire lamp should be replaced when the LED reaches the end of its life.
- All information provided in this manual is subject to change without prior notice.