

(ENGLISH) Fenix HM71R V2.0 Headlamp

Technical Parameters

ANSI/PLATO FL1	Instant Turbo	Spotlight				Floodlight				Red light			
		Turbo	High	Med	Low	Turbo	High	Med	Low	High	Med	Low	Flash
 Output	3500 lumens	3000 lumens	800 lumens	350 lumens	50 lumens	500 lumens	200 lumens	50 lumens	5 lumens	100 lumens	30 lumens	5 lumens	5 lumens
 Runtime	/	3 hours 10 minutes*	5 hours 10 minutes	19 hours 25 minutes	53 hours 35 minutes	5 hours 25 minutes	18 hours	48 hours 35 minutes	337 hours	11 hours 15 minutes	24 hours 35 minutes	124 hours	/
 Max Distance	275 meters	272 meters	139 meters	92 meters	35 meters	48 meters	30 meters	15 meters	4 meters	15 meters	8 meters	2 meters	/
 Max Intensity	18880 candela	18488 candela	4823 candela	2113 candela	307 candela	580 candela	230 candela	56 candela	4 candela	60 candela	16 candela	1 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-L21-5500 battery under the temperature of $21\pm3^{\circ}\text{C}$ 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.

Warning

ⓈDo NOT place this headlamp in the reach of children!

ⓈDo NOT shine this headlamp directly into the eyes of anyone!

ⓈDo NOT place the light head near flammable objects, high temperatures can cause objects to overheat and become flammable/ignite!

ⓈDo NOT use this headlamp in inappropriate ways such as holding the unit in your mouth, doing so could cause serious personal injury or death if the headlamp or internal battery fails!

ⓈThis headlamp will accumulate a significant amount of heat while operating, resulting in a high temperature of the lamp shell. Pay close attention to avoid burns!

ⓈTurn off the headlamp or remove the battery to prevent accidental activation when the headlamp is placed in a closed and flammable environment such as pockets and backpacks!

ⓈThe LEDs of this headlamp are not replaceable; so the whole lamp will need to be replaced if any one of the LEDs reaches the end of its lifespan.

Product features

Ⓢ3500 lumens maximum output, 275 meters maximum beam distance.

ⓈUses one Luminus SFT-60 cold white LED, one Luminus SST-20F cold white LED, and two HFL1-R red LEDs; with a lifespan of 50,000 hours each.

- ◎Spotlight, floodlight, and red light designed for various complex outdoor scenarios.
- ◎Toggle switch and electronic switch for simple and fast operation.
- ◎Quick-release body clip design enables the lamp to be detached from the mount to serve as a flashlight.
- ◎Magnetic tail for easy and flexible mounting.
- ◎Powered by an included ARB-L21-5500 replaceable battery.
- ◎Inner waterproof USB Type-C charging port.
- ◎Made of A6061-T6 aluminum alloy material.
- ◎Premium type HAIII hard-anodized anti-abrasive finish.
- ◎IP68-rated protection and 2 meters impact resistance.
- ◎Size (including mount): 4.39" × 2.10" × 1.97"/111.5 × 53.4 × 50 mm.
- ◎Weight: 7.76 oz/220 g (including battery and headband).

Operating Instructions

On/Off

On:

With the lamp turned off and locked, turn the toggle switch from  to any mode to turn on the headlamp.

With the lamp unlocked, press and hold the electronic switch for 0.5 seconds to turn on the headlamp.

Off:

With the lamp turned on, turn the toggle switch from any mode to  to turn off and lock the headlamp or press and hold the electronic switch for 0.5 seconds to turn off the headlamp.

Mode Switching

Rotate the toggle switch to cycle bidirectionally through Red light⇌Lockout⇌Spotlight⇌Floodlight.

By default, the toggle switch is set to the Off/Lockout mode.

Output Selection

Spotlight mode: With the lamp turned on, single click the electronic switch to cycle through Low→Med→High→Turbo.

Floodlight mode: With the lamp turned on, single click the electronic switch to cycle through Low→Med→High→Turbo.

Red light mode: With the lamp turned on, single click the electronic switch to cycle through Low→Med→High→Flash.

Instant Turbo

In any white light mode, press and hold the electronic switch for 1.2 seconds to enter Turbo mode. In Turbo mode, single click the electronic switch or remain inactive for 60 seconds to recall the previously used mode and output.

*The actual brightness performance in Turbo mode may vary depending on factors such as battery level and working environment. The headlamp features built-in intelligent overheat protection; it is normal for the headlamp to automatically reduce brightness when the temperature exceeds 55°C.

Intelligent Memory Circuit

The headlamp automatically memorizes the last selected output of each mode excluding Red light. When turned on again, the last selected output will be recalled.

*The headlamp will activate in High output if it was previously switched off in Turbo output.

Charging

1. Slide the port cover to reveal the USB Type-C charging port, then connect the USB Type-C end of the charging cable to the headlamp.
2. The indicator will display red while charging and will turn green when fully charged.
3. Once charging is completed, be sure to unplug the charging cable and close the port cover to prevent the ingress of dust and debris.
4. With the lamp turned off, the charging time of the included Fenix ARB-L21-5500 battery is approximately 2 hours from depleted to fully charged with a 9 V/3 A or above charging adapter.

Note:

1. The headlamp can be operated while charging, with all outputs available except for Turbo.
2. Recharge a stored headlamp every four months to maintain the optimum performance of the battery.
3. Only use a certified USB charging adapter that complies with local safety standards.

Battery Level Indication

With the lamp turned off, single click the electronic switch to check the battery status. Single click once again the indicator(s) will go out immediately, or without any operation the indicator(s) will last for 3 seconds. Each time the lamp is turned on, the indicator(s) will show the battery level and will last for 3 seconds.

Green light on: 100% - 85%

Green light flashes: 85% - 50%

Red light on: 50% - 20%

Red light flashes: 20% - 1% (please charge in time)

*This feature only works with a Fenix ARB-L21 Series rechargeable battery.

Battery Specifications

Type	Dimensions	Nominal Voltage	Usability	
Fenix ARB-L21 Series	21700	3.6 V	Recommended	✓✓
Rechargeable Battery (Li-ion)	21700	3.6 V	Caution*	!
Battery without Protection Board (Li-ion)	21700	3.6 V	Banned	×

*21700 Li-ion batteries are powerful cells designed for commercial applications and must be treated with caution and handled with care. Using low-quality batteries or mishandling batteries (such as

short-circuiting or overheating) could lead to combustion and jeopardize the safety of users and property. Any adverse effects resulting from the use of low-quality batteries are not covered by any Fenix warranty or liability. Using quality batteries with circuit protection will reduce the potential for combustion or explosion.

Warning:

1. Do not use batteries prohibited in this manual to prevent battery overvoltage from burning out circuit components.
2. Do not use batteries without any protection board.

Battery Replacement

Unscrew the battery cover and insert the battery in accordance with the polarity marks, then screw the battery cover back on.

Intelligent Overheat Protection

The headlamp will accumulate a lot of heat when used at high output levels for extended periods. When the headlamp reaches a temperature of 55°C/131°F or above, it will automatically step down a few lumens to reduce the temperature. When the temperature drops below 55°C/131°F, the headlamp will gradually recall the preset output level.

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, the battery level indicator blinks red to remind users to recharge or replace the battery in a timely manner.

Headband Assembly

Notice: The headband is factory assembled and ready to use right out of the package.

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

Usage and Maintenance

©Disassembling the sealed head can cause damage to the headlamp and will void the warranty.

©Fenix recommends using an excellent quality battery.

©If the lamp will not be used for an extended period, remove the battery, or the headlamp could be damaged by electrolyte leakage.

©Remove 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 O-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: Low battery level.

Solution: Recharge or replace the battery.

B: The contact or contact point 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 HM71R V2.0 headlamp, ARB-L21-5500 battery, USB Type-C charging cable, Spare O-ring, User manual, Warranty card