

(English) Fenix HM75R Pro Headlamp

Technical Parameters

ANSI/PLATO FL1		OUTPUT	RUNTIME	DISTANCE	INTENSITY	IMPACT RESISTANCE	SUBMERSIBLE
Spotlight	Turbo	3300 lumens	3 hours 33 minutes*	398 meters	39852 candela	2 meters	IP68
	High	800 lumens	6 hours 28 minutes	189 meters	8968 candela		
	Med	350 lumens	16 hours	124 meters	3861 candela		
	Low	50 lumens	68 hours	47 meters	549 candela		
Floodlight	Turbo	1500 lumens	3 hours 39 minutes	85 meters	1805 candela		
	High	400 lumens	11 hours 21 minutes	42 meters	448 candela		
	Med	50 lumens	102 hours 45 minutes	15 meters	56 candela		
	Low	5 lumens	516 hours	4 meters	4 candela		
Spot-and floodlight	Turbo	3500 lumens	3 hours 22 minutes	334 meters	27884 candela		
	High	1200 lumens	4 hours 45 minutes	148 meters	5453 candela		
	Med	400 lumens	14 hours 50 minutes	81 meters	1647 candela		
	Low	50 lumens	56 hours 45 minutes	29 meters	207 candela		
Red light	High	140 lumens	8 hours 25 minutes	30 meters	226 candela		
	Med	30 lumens	74 hours 15 minutes	14 meters	47 candela		
	Low	5 lumens	366 hours	6 meters	8 candela		
	Flash	5 lumens	/	/	/		

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±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.

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 light head near flammable objects, high temperatures can cause objects to overheat and become flammable/ignite!
- ©Do NOT use the 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, 398 meters maximum beam distance.
- ©Uses one Luminus SFT90X white LED, two Luminus SST25 white LEDs, and one OSRAM GR QSSPA1.23 red LED; with a lifespan of 50,000 hours each.
- ©Spotlight, floodlight, combined output, and red light meet various lighting needs in complex outdoor scenarios.
- ©Rotary switch and electronic switch combination for quick output selection and mode switching.
- ©Magnesium alloy lamp body, lightweight and durable.
- ©Powered by an included ARB-L21-5500 replaceable battery.
- ©Inner waterproof USB Type-C charging port.
- ©Intelligent sensing function avoids danger caused by high temperature.
- ©IP68-rated protection and 2-meter impact resistance.
- ©Size (including mount): 3.85" × 1.98" × 2.44"/97.8 × 50.4 × 61.9 mm.
- ©Weight: 7.55 oz/214 g (including battery and headband).

Operating Instructions

On/Off

On:

With the lamp turned off and locked, rotate the rotary 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, rotate the rotary switch 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 rotary switch to cycle bidirectionally through Red light mode⇌Lockout mode⇌Spotlight mode⇌Floodlight mode⇌Spot-and floodlight mode.

By default, the rotary 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.

Spot-and 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.

Turbo mode

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 Sensing Function

On: With the lamp turned off, press and hold the electronic switch for 6 seconds; the headlamp will blink twice in Low output of Floodlight mode to indicate that this function is enabled.

Off: With the lamp turned off, press and hold the electronic switch for 6 seconds; the headlamp will

blink 8 times in Low output of Floodlight mode to indicate that this function is disabled.

Intelligent sensing downshift

When the light head is close to an illuminated object (about 2.36"/60 mm) in white light mode, the headlamp will automatically downshift to Low output. When the light head is away from the illuminated object for over 0.8 seconds, the headlamp will gradually recall the previously used brightness level.

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.

Battery Specifications

Type	Dimensions	Nominal Voltage	Usability	
Fenix ARB-L21 Series	21700	3.6 V	Recommended	√
Other 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.

Charging

1. Open the anti-dust cover and plug the USB Type-C end of the charging cable into the charging port of the headlamp.
2. When charging, the indicators will light up in sequence to display the charging status. The four indicators will be constant-on after charging is completed.
3. Once charging is completed, be sure to unplug the charging cable and close the anti-dust cover to prevent the ingress of dust and debris.
4. With the lamp turned off, the charging time of the included Fenix ARB-L21-5000 V2.0 battery is approximately 1.5 hours from depleted to fully charged with a 5 V/2.5 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.

Four lights on: 100% - 80%

Three lights on: 80% - 60%

Two lights on: 60% - 40%

One light on: 40% - 20%

One light flashes: 20% - 1%

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

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 decrease the brightness 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 the Low output is reached. When this happens in Low output, one of the battery level indicators blinks 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 headlamp will not be used for an extended period, remove the battery, or the lamp 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 HM75R Pro headlamp, ARB-L21-5500 battery, USB Type-C charging cable, Spare O-ring, User manual, Warranty card