







Fenix HM71R Headlamp

Technical Parameters

ANSI/PLATO FL1	Spotlight Mode				Floodlight Mode			
	Turbo	High	Med	Low	High	Med	Low	Read
 Output	2700 lumens	800 lumens	200 lumens	50 lumens	500 lumens	200 lumens	50 lumens	5 lumens
 Runtime	3 hours*	5 hours	16 hours	48 hours	8 hours	16 hours	48 hours	400 hours
 Distance	230 meters	104 meters	52 meters	27 meters	47 meters	30 meters	14 meters	5 meters
 Intensity	13300 candela	2705 candela	686 candela	181 candela	555 candela	225 candela	50 candela	6 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 the Fenix ARB-L21-5000 V2.0 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 a total of runtime including output at reduced levels due to temperature or protection mechanism in the design.

Warning

- Do place this headlamp out of the reach of children!
- Do NOT shine the headlamp directly into the eyes of anyone!

- Do NOT shine flammable objects at close range, to avoid burning objects or causing danger due to high temperature!
- Do NOT use the headlamp in inappropriate ways such as biting in the mouth, to avoid personal injury or life threats when the headlamp or internal battery fails!
- This headlamp will accumulate a lot of heat while working, resulting in a high temperature of the headlamp shell. Pay attention to safe use to avoid scalding.
- Turn off and lock the headlamp or remove the battery from the headlamp to prevent accidental activation when the headlamp is placed in a closed and flammable environment such as pockets and backpacks!
- The LED of this headlamp is not replaceable; so the whole headlamp should be replaced when the LED reaches the end of its life.

Product Features

- 2700 lumens maximum output and 230 meters maximum beam distance.
- A Luminus SFT70 white light LED and a Luminus SST20 CRI90 neutral white LED, with a lifespan of 50,000 hours.
- Included an ARB-L21-5000 V2.0 battery.
- Digitally regulated circuit for maintaining a stable output.
- USB Type-C charging port supports 2A charging current.
- Can be used as a headlamp and flashlight.
- Large thumb-sized switch for easy and fast operation.
- Made of durable A6061-T6 aluminum.
- Premium type HAIII hard-anodized anti-abrasive finish.
- Size: 4.17" x 1.81" x 1.77" / 106 x 46 x 45 mm.
- Weight: 7.32 oz / 207.5 g (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, press and hold the switch for 0.5 seconds to enter Spotlight mode, and double click the switch to enter Floodlight mode.

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

Output Selection

In Spotlight mode, single click the switch to cycle through Low→Med→High→Turbo.

In Floodlight mode, single click the switch to cycle through Read→Low→Med→High.

Lock/Unlock

Lock: when the lamp is switched off, press and hold the switch for 3 seconds, the lamp will blink 4 times on Read mode to indicate locked status.

Unlock: when the lamp is locked, press and hold the switch for 3 seconds, the lamp will be activated with 4 one-second Read mode blinks and activated on Read mode.

In locked status, clicking the switch will activate 4 one-second blinks on Read mode to indicate locked status.

Intelligent Memory Circuit

The headlamp memorizes the last selected output of Spotlight mode. When turned on again the previously used output of Spotlight mode will be recalled. Each time the Floodlight mode is entered with Read.

* If turning off the lamp in the Turbo of the Spotlight mode, When turned on again the High output level of Spotlight mode will always be recalled.

Battery Specifications

Type	Dimensions	Nominal Voltage	Usability	
Fenix ARB-L21 Series	21700	3.6V/3.7V	Recommended	√
Rechargeable Battery (Li-ion)	21700	3.7V	Usable	√
Rechargeable Battery (Li-ion)	18650	3.7V	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.

Battery Replacement

Unscrew the cap to insert the battery with the anode side (+) towards the inside, then screw the cap back on.

Charging

1. Uncover the anti-dust cap and plug the USB Type-C side of the charging cable into the charging port of the lamp.
2. The normal charging time of the included Fenix ARB-L21-5000 V2.0 is about 4 hours (5V/2A) with the lamp being switched off.
3. The indicator will display red while charging and turn green when fully charged.

* This only works with Fenix ARB-L21-5000 V2.0 battery.

Note:

1. Recharge a stored headlamp every four months to maintain optimal battery performance.
2. When charging, the Low output level of Spotlight mode can be used. The headlamp will not automatically power on after full charging.
3. When charging is complete, replace the anti-dust cap to ensure the waterproof and dustproof ability.

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% - 80%

Green light flashes: sufficient 80% - 50%

Red light on: poor 50% - 20%

Red light flashes: critical 20% - 1%

Note: This only works with Fenix ARB-L21-5000 V2.0 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 to reselection 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, the battery level indicator blinks to remind you to timely recharge or replace the battery.

Note: This only works with Fenix ARB-L21-5000 V2.0 battery.

Headband Assembly

1. The headband is factory assembled by default.
2. 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 the 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 HM71R headlamp, ARB-L21-5000 V2.0 battery, USB Type-C charging cable, Spare O-ring, User manual, Warranty card