







# Fenix HM61R Headlamp

## Technical Parameters

ANSI/PLAT O FL1	White Light					Red Light		
	Turbo	High	Med	Low	Eco	Low	Med	Flash
 Output	1200 lumens	400 lumens	150 lumens	50 lumens	5 lumens	1 lumen	5 lumens	5 lumens
 Runtime	2 Hours*	4 hours	12 hours	38 hours	300 hours	400 hours	80 hours	160 hours
 Distance	145 meters	80 meters	50 meters	28 meters	8 meters	/	/	/
 Intensity	5287 candela	1609 candela	635 candela	195 candela	14 candela	/	/	/
 Impact Resistance	2 meters							
 Waterproof	IP68, 2 meters underwater							

Note: The above specifications are the test results given by Fenix through its laboratory testing using the Fenix ARB-L18-3500 18650 rechargeable 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 batteries used.

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

- Luminus SST40 white and red LEDs, with a lifespan of 50,000 hours.
- Powered by a 18650 or 2 CR123A batteries.
- Simple operation with large side switch.

- Magnetic charging for easy and fast operation.
- Battery level and charging indication.
- Magnetic tail, right-angled lighting.
- Made of quality aluminum and PC.
- Digitally regulated circuit for maintaining a stable output.
- Reverse polarity protection, to protect from improper battery insertion.
- Intelligent memory circuit recalls the last used brightness level.
- Size: 3.98" x 1.81" x 1.42" / 101 x 46 x 36 mm.
- Weight: 3.51 oz / 99.5 grams (excluding battery).

## Operating Instruction

### On/off

With the lamp switched off, press and hold the side switch for 0.5 seconds, the lamp will light up on the previously used output level of white light mode.

With the lamp switched off, press and hold the side switch for 1.2 seconds, the lamp will light up on Low output level of red light mode.

With the lamp switched on, press and hold the side switch for 0.5 seconds again to turn off the lamp .

### Output Selection

In white light mode, single click the side switch to cycle through Eco→Low→Med→High→Turbo.

In red light mode, single click the side switch to cycle through Red Low→Red Med→Red Flash.

### Mode Switching

With the lamp switched on, press and hold the side switch for 1.2 seconds to select white or red mode.

### Lockout Function

**Lock:** With the lamp switched off, double click the side switch, the lamp will blink 3 times/2Hz on Eco of white light mode to indicate locked status.

**Unlock:** With the lamp is locked, double click the side switch, the lamp will be activated with 3 2Hz blinks on Eco of white light mode and activates on Low of white light mode.

### Intelligent Memory Circuit

The lamp memorizes the last selected output excluding red light mode. When turned on again the previously used output of white light mode will be recalled.

## Battery Specifications

Type	Dimensions	Nominal Voltage	Usability	

Fenix ARB-L18 Series	18650	3.6V	Recommended	√√
Non-rechargeable Battery (Lithium)	CR123A	3V	Usable	√
Rechargeable Battery (Li-ion)	16340	3.7V	Banned	×
Rechargeable Battery (Li-ion)	18650	3.7V/3.6V	Caution*	□
Rechargeable Battery (LiFePO4)	16340	3.2V	Usable	√
Rechargeable Battery (LiFePO4)	18650	3.2V	Banned	×

Warning: Use quality Li-ion battery with protective circuits. Fenix ARB-L18 Series battery is recommended.

\*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 battery cover to insert the battery with the anode side (+) towards the inner side, then screw the battery cover back on.

## Magnetic Absorption Charging

Connect the USB port of the charging cable to the power source, then hold the magnetic end of the charging cable close to the charging port of the headlamp. The charging cable will attach to the charging port automatically and charging will begin.

### Note:

1. The headlamp can be used while the it is being charged, but charging time will be prolonged.
2. The normal charging time of the Fenix ARB-L18-3500 battery is 4 hours from depletion to full charging.
3. Recharge a stored headlamp every four months to maintain optimal battery performance.

4. In charging process, the indicators besides the charging port of the cable will display different charging status. Red light constant on: not fully charged; green light constant on: fully charged.

## Battery Level Indication

With the lamp switched off, single click the side switch, the battery level indicator in the middle of the switch will automatically display the battery status for 3 seconds.

Green constant on: 100% - 85%, saturated

Green flashes: 85% - 50%, sufficient

Red constant on: 50% - 25%, poor

Red flashes: 25% - 1%, critical

**Note: 1. This only works with 18650 rechargeable Li-ion battery.**

2. The lamp can be switched on during this process.

## Low Voltage Warning

When the battery level is detected critical for currently used output, the battery level indicator will flash to remind. Replace the battery or recharge the lamp as soon as possible.

## Intelligent Protection

The lamp will accumulate a lot of heat when used for extended periods. When the light reaches a temperature of 65°C or above, the lamp will automatically step down a few lumens due to protection mechanism in the design. When the temperature is reduced, the output will gradually return.

## 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 18650 battery.
- If the lamp will not be used for an extended period, remove the battery, or the lamp could be damaged by electrolyte leakage.
- 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 battery (Ensure battery is inserted according to the manufacturer's specifications).

B: The threads, PCB board contact or other contacts are 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**

HM61R headlamp, Fenix ARB-L18-3500 battery, Magnetic charging cable, Hallow headband, Hallow top headband, Headlamp mount, 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.