

# Fenix HM50R Headlamp

## Technical Parameters

ANSI/PLATO FL1		Turbo	High	Med	Low
 <b>Output</b>		500 Lumens	130 Lumens	30 Lumens	4 Lumens
 <b>Runtime</b>	<b>CR123A Battery</b>	2h	14h	48h	128h
	<b>16340 Battery</b>	2.5h	10h	24h	90h
 <b>Distance</b>		80m	42m	20m	6m
 <b>Intensity</b>		1,813cd	453cd	104cd	11cd
 <b>Impact Resistance</b>		1m			
 <b>Waterproof</b>		IP68, underwater 2m			

Note: The abovementioned parameters (lab-tested by Fenix using quality 3V CR123A and the included ARB-L16-700 Li-ion battery) may vary between headlamps, batteries and environments.

- Cree XM-L2 U2 white LED with a lifespan of 50,000 hours

- Powered by one rechargeable 16340 Li-ion battery or one CR123A Lithium battery
- 67.5mm Length x 33mm Width x 28mm Height (including the lamp holder)
- 63 grams (including the lamp holder and headband, but excluding the battery)
- Reverse polarity protection, to protect from improper battery insertion
- Easy one-switch operation
- Micro USB rechargeable
- Can be used as a mini flashlight
- Perfect for rigid environments
- Sweat-blocking, reflective headband
- Made of quality aluminum; premium type III hard-anodized anti-abrasive finish
- Toughened ultra-clear glass lens with anti-reflective coating

Accessories: 1\* spare O-ring, 1\* silicone holder, 1\* ARB-L16-700 battery

## Operating Instruction

① **ON/OFF:** Press and hold the switch for 0.5 seconds to turn on/off the headlamp.

**Output selection:** With the headlamp switched on, single click the switch to cycle through Low→Med→High→Turbo.

Note: The headlamp memorizes the last selected brightness. When turned on again the previously used brightness level will be recalled.

### ① **Battery level indication**

With the headlamp switched off, single click the switch to display the battery level for 3 seconds in different colors:

Green constant on: more than 80%

Green flashes: 50% - 80%

Blue constant on: 20% - 50%

Blue flashes: less than 20%

## ② Charging

Uncover the anti-dust cap and plug the Micro USB terminal of the charging cable into the charging port of the headlamp. Once charging is completed, be sure to remove the charging cable and replace the anti-dust cap. The max charging current is **700mA**, and the charging time is about 1.5 hours. The indicator displays blue when charging, and turns green when fully charged. The headlamp can only be used on Med output when charging.

**Warning:** Avoid charging non-rechargeable batteries.

### **Intelligent Overheat Protection**

The light will accumulate a lot of heat when used on Turbo output level for extended periods. When the light reaches a temperature of 65°C or above, the light will automatically downshift to High output to reduce temperature. Reset to Turbo if needed.

### **Low Voltage Downshift**

When the voltage of the 16340 battery in use drops lower than 3.0V, the low voltage downshift function will be activated. In this state the headlamp cannot be used on Turbo output and will only cycle through High, Med and Low.

### **Extended Runtime**

The headlamp will automatically step down by a few lumens after being used for an extended period on any of the High, Med or Low outputs, to extend runtime and to guarantee illumination outdoors.

### **Use as a flashlight**

Remove the tail cap and the battery, then remove the headlamp from the holder. Re-insert the battery and screw back the tail cap.

## **Battery Specifications**

Type	Dimensions	Nominal Voltage	Usability	
Fenix ARB-L16-700	16340	3.6/3.7V	Recommended	<b>✓✓</b>
Fenix ARB-L16-700U	16340	3.6/3.7V	Recommended	<b>✓✓</b>
Non-rechargeable Battery (Lithium)	CR123A	3V	Usable	<b>✓✓</b>
Rechargeable Battery (Li-ion)	16340	3.7V	Usable	<b>✓</b>
Rechargeable Battery (LiFePO4)	16340	3.2V	Usable*	<b>✓</b>

Warning: \*1. It is prohibited to charge LiFePO4 battery.

2. Use only the recommended and usable batteries.
3. If the lamp will not be used for an extended period, remove the battery, or the lamp could be damaged by electrolyte leakage or battery explosion.

### ③ Battery Replacement

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

### Headlamp Holder Replacement

The headlamp holder is made of enhanced silicone, which gives it good anti-tearing ability and mechanical strength, and makes it resistant to low and high temperature, ultraviolet rays, acid and alkali corrosion. The material feels smooth to the touch and should not cause allergic reactions.

If the headlamp holder needs replacing, open the tail cap, remove the battery and the holder, and replace with the new spare holder.

### Headband Assembly

④ Notice: The headband is factory assembled by default.

## Usage and Maintenance

- Disassembling the sealed head can cause damage to the lamp and will void the warranty.
- Fenix recommends the use of only excellent quality batteries.
- If the lamp will not be used for an extended period, remove the battery, or the lamp could be damaged by electrolyte leakage or battery explosion.
- Unscrew the tail cap half a turn or take out 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 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 your authorized distributor.

## Warning

This headlamp is a high-intensity lighting device capable of causing eye damage to the user or others. Avoid shining the headlamp directly into anyone's eyes.