



# HP16R

## HIGH-PERFORMANCE RECHARGEABLE OUTDOOR HEADLAMP

**1250 LUMENS MAXIMUM OUTPUT**

**255 METERS MAXIMUM BEAM DISTANCE**

### Safe Use Warnings

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

### (English) Fenix HP16R Headlamp

- 1250 lumens maximum output.
- Luminus SST40 white light LED, Cree XP-G3 S4 neutral white LED and Everlight 2835 red light LED; with a lifespan of 50,000 hours.
- Included a 3000 mAh Li-polymer battery pack and compatible with 4 AA Ni-MH/Alkaline batteries (charging is prohibited).
- Separately controlled dual switch for easy and fast operation.
- Lockout function avoids accidental activation.
- USB Type-C charging port with 2A fast charging, 3 hours for full charging.
- 60° tilt mechanism directs the beam where needed.
- Made of quality plastics and aluminum, integrated die-casting for better heat dissipation and safety performance.
- Headlamp: 2.44" x 1.85" x 1.26" / 62 x 47 x 32 mm.
- Battery case: 2.87" x 2.72" x 0.98" / 73 x 69 x 25 mm.
- Weight: 7.62 oz / 216 g (including battery and headband).

### Operating Instruction

#### Switches

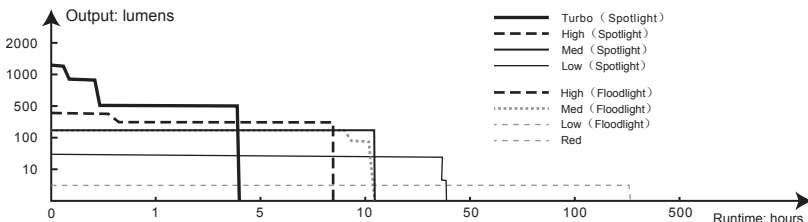
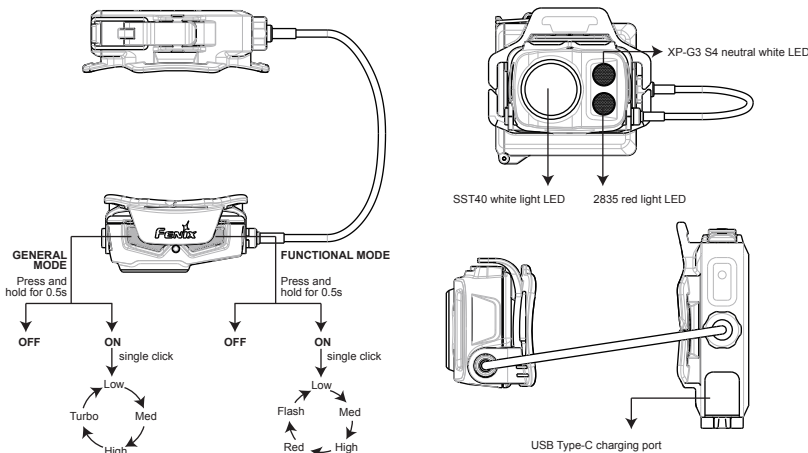
- General switch:** for on/off and output selection on General mode.
- Functional switch:** for on/off and output selection on Functional mode.

**On/off**  
Press and hold either of the switches for 0.5 seconds to turn on/off the lamp.

**Output Selection**  
**General mode:** single click the general switch to cycle through Low→Med→High→Turbo of spotlight.  
**Functional mode:** single click the functional switch to cycle through Low→Med→High→Red Light→Red Flash.

#### Intelligent Memory Circuit

The headlamp memorizes the last selected output. When turned on again the previously used output will be recalled.



### Technical Parameters

ANSI/PLATO FL1	GENERAL MODE					FUNCTIONAL MODE				
	SPOTLIGHT					FLOODLIGHT			RED LIGHT	
	Turbo	High	Med	Low	High	Med	Low	Red	Flash	
Output	1250 lumens	400 lumens	150 lumens	50 lumens	400 lumens	150 lumens	5 lumens	5 lumens	5 lumens	
Runtime	4 hours *	8 hours	12 hours	36 hours	8 hours	12 hours	300 hours	300 hours	600 hours	
Distance	255 meters	149 meters	88 meters	52 meters	48 meters	30 meters	6 meters	6 meters	6 meters	
Intensity	16260 candela	5549 candela	1943 candela	681 candela	583 candela	220 candela	11 candela	8 candela	8 candela	
Impact Resistance						2 meters				
Water Resistant						IP66				

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-LP3000 Li-polymer battery pack under the temperature of 23±2°C and humidity of 65%~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 protection mechanism in the design.

#### Lockout Function

**Lock:** when the lamp is switched off, press and hold either of the two switches, or simultaneously press the two switches for 3 seconds, the lamp will blink red three times to indicate locked status.  
**Unlock:** when the lamp is locked, simultaneously press the two switches for 3 seconds, the lamp will be activated with 3 one-second red blinks and activated on Red Light.

In locked status, clicking or pressing the switches will activate 3 one-second red blinks to indicate locked status.

If the headlamp is turned off on Turbo level of Spotlight mode, when turned on again, it will be activated on High output of Spotlight mode.

### Battery Specifications

Type	Dimensions	Nominal Voltage	Usability
Fenix ARB-LP3000	58x50x14 mm	3.7V	Recommended
Fenix ARB-L14-1600U	14500	1.5V	Recommended (no charging)
Ni-MH Battery	AA	1.2V	Usable (No charging)
Alkaline Battery	AA	1.5V	Usable (No charging)
Non-rechargeable Battery (Lithium)	AA	1.5V	Banned (no charging)
Rechargeable Battery (Li-Ion)	14500	3.7V	Banned (no charging)

- It is strictly prohibited to charge non-rechargeable batteries.
- Recharge a stored headlamp every four months to maintain optimal Li-polymer battery performance.

- If the lamp will not be used for an extended period, remove the AA batteries from the lamp in case of damage by electrolyte leakage.

### Battery Replacement

- Pull latch to open the battery cover.
- Insert the battery/batteries in accordance with the polarity marks.
- Replace the battery cover and fasten the latch.

### Charging

- The included Li-polymer battery pack can be charged via the headlamp. It is strictly prohibited to charge non-rechargeable AA (Ni-MH/Alkaline) batteries via the headlamp.
- Uncover the anti-dust cap of the battery case and plug the USB Type-C side of the charging cable into the charging port of the battery case.
- The indicator on the battery case will display red while charging, and will turn to green when fully charged.
- Replace the anti-dust cap to ensure waterproof and dustproof ability.
- The normal charging time of the Fenix ARB-LP3000 Li-polymer battery is about 3 hours with the lamp being switched off.

### Battery Level Indication

With the lamp switched off, single click either of the switches to check the battery status, the indicator will last for 3 seconds.

Green light on: saturated 100% - 85%

Green light flashes: sufficient 85% - 50%

Red light on: poor 50% - 25%

Red light flashes: critical 25% - 1%

Note: This only works with Fenix ARB-LP3000 Li-polymer battery.



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### Intelligent Overheat Protection

The lamp will accumulate a lot of heat when used 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 for the reselection of 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 mode, the battery level indicator blinks to remind you to timely recharge or replace the battery.

Note: This only works with Fenix ARB-LP3000 Li-polymer battery.

### Headband Assembly

1. The headband is factory assembled by default.

- Adjust the headband by sliding the buckle to 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.
- Lock the lamp 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 battery (Ensure 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 HP16R headlamp, ARB-LP3000 Li-polymer battery, USB Type-C charging cable, 4 x Helmet attachment hooks, 3 x Cable clips, Spare O-ring, Storage bag, User manual, Warranty card