







Fenix HP16R Headlamp

Technical Parameters

ANSI/PLAT O FL1	General Mode				Functional Mode				
	Spotlight				Floodlight			Red Light	
	Turbo	High	Med	Low	High	Med	Low	Red	Flash
 Output	1300 lumens	400 lumens	150 lumens	50 lumens	400 lumens	150 lumens	5 lumens	5 lumens	5 lumens
 Runtime	4 Hours*	8 hours	12hours	36hours	8 hours	12hour s	300hou rs	300hou rs	600hour s
 Distance	260 meters	149 meters	88 meters	52 meters	48 meters	30 meters	6 meters	6 meters	6 meters
 Intensity	16933 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 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.

Product Features

- 1700 lumens maximum output (1300 lumens spotlight + 400 lumens floodlight).
- 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 3000mAh 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.

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.

Battery Specifications

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

1. It is strictly prohibited to charge non-rechargeable batteries.
2. Recharge a stored headlamp every four months to maintain optimal Li-polymer battery performance.
3. 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

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

Charging

1. 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.
2. 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.
3. The indicator on the battery case will display red while charging, and will turn to green when fully charged.
4. Replace the anti-dust cap to ensure waterproof and dustproof ability.
5. The normal charging time of the Fenix ARB-LP3000 Li-polymer battery is about 3hours 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.

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.
2. 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, Storage bag, 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.
- This headlamp will accumulate a lot of heat when used for extended periods, resulting in high temperature of the headlamp shell. Pay attention to safe use to avoid scalding.
- The LED of this headlamp is not replaceable; so the entire lamp should be replaced when the LED reaches the end of its life.
- All information provided in this manual is subject to change without prior notice.