







# Fenix HP25R V2.0 Headlamp

## Warning

- Do 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.

## Technical Parameters

ANSI/PLATO FL1		General Mode					Functional Mode				
		Spotlight					Floodlight			Red Light	
	<b>Output</b>	<b>Turbo</b>	<b>High</b>	<b>Med</b>	<b>Low</b>	<b>Eco</b>	<b>High</b>	<b>Med</b>	<b>Low</b>	<b>Red</b>	<b>SOS</b>
		1600 lumens	1000 lumens	400 lumens	150 lumens	50 lumens	400 lumens	150 lumens	5 lumens	5 lumens	5 lumens
	<b>In water**</b>	2 hours*	4 hours	8 hours	24 hours	56 hours	8 hours	24 hours	400 hours	400 hours	800 hours
	<b>In air**</b>	6 hours*	7 hours	8 hours	24 hours	56 hours	8 hours	24 hours	400 hours	400 hours	800 hours
	<b>Distance</b>	290 meters	228 meters	140 meters	83 meters	59 meters	50 meters	30 meters	8 meters	6 meters	6 meters
	<b>Intensity</b>	20849 candela	13028 candela	4888 candela	1732 candela	879 candela	605 candela	220 candela	16 candela	11 candela	11 candela

 <p><b>Impact Resistance</b></p>	<p>2 meters</p>
 <p><b>Water Resistant</b></p>	<p>IP66</p>

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-L21-5000 Li-ion battery pack under the temperature of 21±3°C. 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.

\*\* Due to the temperature or protection mechanism in the design, the runtime data are from the results produced through laboratory testing in water and in air.

## Product Features

- 1600 lumens spotlight and 400 lumens floodlight.
- One Luminus SST40 white light LED, one Cree XP-G3 S4 neutral white LED and one Everlight 2835 red light LED; with a lifespan of 50,000 hours.
- Included a Fenix ARB-L21-5000 Li-ion battery, compatible with a 18650 Li-ion battery.
- Separately controlled dual switch for easy and fast operation.
- Lockout function avoids accidental activation.
- USB Type-C charging port for easy and fast charging.
- 60° tilt mechanism directs the beam where needed.
- Made of quality PC and aluminum, lightweight and wear-resistant.
- Headlamp: 2.36" x 1.85" x 1.30" / 60 x 47 x 33 mm.
- Battery case: 3.90" x 1.61" x 1.56" / 99 x 41 x 39.5 mm.
- Weight: 8.40 oz / 238 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 Eco→Low→Med→High→Turbo.

Functional mode: single click the functional switch to cycle through Low→Med→High→Red Light→SOS.

## **Lockout Function**

**Lock:** when the lamp is switched off, simultaneously press the two switches for 3 seconds, the lamp will blink red four 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 4 one-second red blinks and activated on Red Light.

In locked status, clicking or pressing the switches will activate 4 one-second red blinks to indicate locked status.

## **Intelligent Memory Circuit**

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

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

## Battery Specifications

Type	Dimension	Nominal Voltage	Usability	
Fenix ARB-L21 Series	21700	3.6V	Recommended	✓✓
Fenix ARB-L18 Series	18650	3.6V	Usable (with ALF-18 battery holder)	✓
Non-rechargeable Battery (Lithium)	CR123A	3V	Banned	✗
Rechargeable Battery (Li-ion)	16340	3.6V	Banned	✗
Rechargeable Battery (Li-ion)	18650	3.6V	Banned	✗

Warning: \*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 in accordance with the polarity marks, then screw the cap back on.

## Charging

1. Uncover the cap and plug the USB Type-C side of the charging cable into the charging port of the lamp.
2. The indicator will display red while charging and will turn green when fully charged.
3. The normal charging time of the included Fenix ARB-L21-5000 21700 rechargeable Li-ion battery is about 4 hours with a 5V/2A adapter.
4. When charging is complete, replace the anti-dust cap to ensure waterproof and dustproof ability.
5. Recharge a stored headlamp every four months to maintain optimal Li-ion battery performance.
6. When charging, the headlamp can be normally used, but charging time will be prolonged.

## 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-L21 Series battery.

## **Intelligent Overheat Protection**

The lamp will accumulate a lot of heat when used at Turbo mode for extended periods. When the lamp reaches a temperature of 60°C or above, the lamp will automatically step down a few lumens to reduce the temperature. When the temperature drops below 60°C, it will then allow the user for the reselection of Turbo mode.

## **Low-voltage Warning**

When the voltage level drops below the preset level, the headlamp is programmed to downshift to a lower brightness level until Eco output is reached. When this happens in Eco output mode, the lamp blinks 3 times every 5 minutes to remind you to timely recharge or replace the battery.

Note: This only works with Fenix ARB-L21 Series battery.

## **Headband Assembly**

Note: The headband is factory assembled by default.

1. 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.
- Lock the lamp 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 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 HP25R V2.0 Headlamp, Fenix ARB-L21-5000 Li-ion battery, USB Type-C charging cable, 4 x Helmet attachment hooks, 3 x Cable clips, 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 a high temperature of the headlamp shell. Pay attention to safe use to avoid scalding.
- Do not shine an object at close range, avoid burning the object or causing danger due to high temperature.
- The LED of this headlamp is not replaceable; so the entire lamp should be replaced when the LED reaches the end of its life.
- If any of the information provided in this manual is changed, the new version of the manual shall prevail; if your included user manual is an old one, it acquiesces that we won't send a new manual.