

Fenix HP30R V2.0 Headlamp

Technical Parameters

ANSI/PLATO FL1	Spotlight Mode				Floodlight Mode			Spot & Flood Mode			
	Turbo	High	Med	Low	High	Med	Low	Turbo	High	Med	Low
 Output	2000 lumens*	800 lumens	200 lumens	50 lumens	1000 lumens	200 lumens	50 lumens	3000 lumens*	1800 lumens	400 lumens	100 lumens
 Runtime	6 hours	12 hours	34 hours	120 hours	10 hours	34 hours	120 hours	5 hours	6 hours	17 hours	60 hours
 Distance	251 meters	156 meters	78 meters	42 meters	78 meters	34 meters	17 meters	270 meters	177 meters	85 meters	45 meters
 Intensity	15733 candela	6104 candela	1515 candela	450 candela	1513 candela	291 candela	76 candela	17933 candela	7881 candela	1812 candela	512 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 two Fenix ARB-L21-5000 Li-ion batteries under the temperature of $21\pm3^{\circ}\text{C}$ 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 a total of runtime including output at reduced levels due to temperature or protection mechanism in the design.

- 3000 lumens maximum output; 120 hours maximum runtime.
- One XHP50 white light LED, two XP-G3 S4 neutral white light LEDs; with a lifespan of 50000 hours.
- Included 2 x 5000mAh Li-ion batteries.
- Integrated die-casting ensures security and better heat dissipation.
- Rotary switch simultaneously activates spot- and floodlight modes.
- Dual interface for charging and discharging capability.
- Dual wearing way of battery case: can be clipped on the headband or can be belt-worn.
- Made of durable A6061-T6 aluminum.
- Premium type HAIII hard-anodized anti-abrasive finish.
- Headlamp: 3.62" x 2.20" x 1.73" / 92 x 56 x 44 mm.
- Battery case: 4.21" x 1.97" x 1.61" / 107 x 50 x 41 mm.
- Weight: 15.41 oz / 437 g (including battery and headband).

Operating Instructions

On/off

With the lamp switched off, rotate the switch clockwise, the lamp enters spotlight mode;

With the lamp switched off, rotate the switch counterclockwise, the lamp enters floodlight mode;

With the lamp switched on, rotate the switch to the off state to turn off the lamp.

Mode Switching

Spotlight mode: on floodlight mode, rotate the switch clockwise to the off state, continuously rotate to enter spotlight mode.

Floodlight mode: on spotlight mode, rotate the switch counterclockwise to the off state, continuously rotate to enter floodlight mode.

Spot&flood Mode: on spotlight or floodlight mode, single click the side switch to enter spot&flood mode, click again to exit.

Output Selection

Spotlight mode: rotate the switch to cycle through Low Med High Turbo.

Floodlight mode: rotate the switch to cycle through Low Med High.

Spot&Flood mode:

1. On spotlight mode, rotate the switch to cycle through Low Med High Turbo.

2. On floodlight mode, rotate the switch counterclockwise to cycle through Low Med High.

Note: The lamp does not have an intelligent memory circuit, each time it is turned on, Low of the spotlight or Low of the floodlight will be activated.

Battery Specifications

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

* Do not mix batteries of different brands, sizes, capacities or types. Doing so may cause damage to the headlamp or the batteries being used.

* Fenix ARB-L18 Series rechargeable Li-ion battery can also be used together with the ALF-18 battery holder.

* 21700 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

Open the cap to insert the battery in accordance with the polarity marks, then replace the cap and fasten the latch.

Charging

- Open the cap and plug the USB Type-C side of the charging cable into the charging port of the battery case.

- In charging process, one indicator flashes: below 20%, one constant-on and one flashes: 20% - 50%, two constant-on and one flashes: 50% - 80%, three constant-on and one flashes: 80% - 95%, four constant-on: charging complete.
- When charging is complete, replace the anti-dust cap to ensure the waterproof and dustproof ability.

Note: 1. The normal charging time of the Fenix ARB-L21-5000 battery is about 4.5 hours from depletion to full charging, with the lamp being switched off. When charging, on/off and output selection can be used.

2. Recharge a stored headlamp every four months to maintain optimal Li-ion battery performance.

Power Bank Function

1. Switch off the lamp, plug the USB A socket of the charging cable into the battery case, and then connect another socket of the charging cable to the digital device.
2. Single click switch next to the indicators to begin discharging (discharging current is 2A).
3. In discharging process, four indicators flash: over 80%, three flash: 50% - 80%, two flash: 20% - 50%, one flashes: below 20%.
4. When discharging complete, the indicators delay 30 seconds to go out to remind charging is complete. Be sure to close the anti-dust cover once charging is completed.

Battery Level Indication

With the lamp switched off, single click the switch to check the battery status, the indicators will last for 3 seconds.

Four constant on: 100% - 80%

Three constant on: 80% - 60%

Two constant on: 60% - 40%

One constant on: 40% - 20%

One flashes: critical 20% - 1%

Note: This only works with Fenix ARB-L21-5000 battery.

Intelligent Overheat Protection

The lamp will accumulate a lot of heat when used at relatively high modes 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 to reselect 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 mode is reached. When this happens in Low 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-L21-5000 battery.

Headband Assembly

- The headband is factory assembled by default.
- Adjust the headband by sliding the buckle to the required length.
- If the headband is stained with sweat and mud, it can be washed directly.

Wearing Ways

On head: clip the battery case on the holder, and it can be assembled on the helmet with the included helmet attachment hooks.

Belt-worn: clip the battery case on the included stainless steel belt clip, the lamp can be belt-worn together with the extension cable.

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.
- 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 or recharging.

Solution: Replace or recharge 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 HP30R V2.0 Headlamp, 2 x Fenix ARB-L21-5000 Li-ion battery, USB Type-C charging cable, 4 x Helmet attachment hooks, 3 x Cable clips, Stainless belt clip, Extension cable, 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.