







(ENGLISH)Fenix HP12R-T Headlamp

Technical Parameters

ANSI/PLATO FL1	White light+Neutral white light		White light				Neutral white light			Headlamp red light		Battery case red light	
 OUTPUT	Turbo	Low	Turbo	High	Med	Moonlight	High	Med	Low	Constant-on	SOS	Constant-on	Flash
	1300 lumens	70 lumens	1000 lumens	350 lumens	70 lumens	5 lumens	500 lumens	200 lumens	70 lumens	5 lumens	5 lumens	3 lumens	3 lumens
 RUNTIME	4 hours 40 minutes	18 hours 20 minutes	5 hours	16 hours 20 minutes	30 hours	310 hours	6 hours 10 minutes	16 hours	24 hours 30 minutes	160 hours	320 hours	108 hours	216 hours
 DISTANCE	200 meters	47 meters	170 meters	98 meters	44 meters	12 meters	130 meters	79 meters	47 meters	4 meters	/	/	/
 INTENSITY	9973 candela	564 candela	6967 candela	2412 candela	473 candela	36 candela	4290 candela	1552 candela	551 candela	5 candela	/	/	/
 IMPACT RESISTANCE	2 meters												
 WATERPROOF	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 ARB-L18-4000 battery 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.

Warning

- ©Do NOT place this lamp in the reach of children!
- ©Do NOT shine the lamp directly into the eyes of anyone!
- ©Do NOT place lamp head near flammable objects, high temperatures can cause objects to overheat and become flammable/ignite!
- ©Do NOT use the lamp in inappropriate ways such as holding the unit in your mouth, doing so could cause serious personal injury or death if the headlamp or internal battery fails!
- ©This lamp will accumulate a significant amount of heat while operating, resulting in a high temperature of the lamp shell. Pay close attention to avoid burns.
- ©Turn off and lock the lamp or remove the battery to prevent accidental activation when the lamp is placed in a closed and flammable environment such as pockets and backpacks!
- ©The LEDs of this lamp are not replaceable; so the whole lamp should be replaced when any one of the LEDs reaches the end of its lifespan.

Product features

- ©1300 lumens maximum output, 200 meters maximum beam distance.
- ©Utilizes one Luminus SST25, one Luminus SST20 CRI80, and two 2835 red LEDs; with a life span of 50,000 hours each.
- ©Cold white light, neutral white light, and red light support lighting needs in complex terrains and challenging weather conditions like rain, fog, and snow.
- ©Dual switches design allows for separate control of the white light and the neutral white light, both of which can be turned on simultaneously.
- ©Battery case features constant and flashing red light outputs for securing user safety during the night.
- ©Electronic lockout and physical lockout avoid accidental activation.
- ©Powered by a replaceable 4000mAh battery for longer runtime.
- ©Lamp head is constructed from rugged aluminum alloy material, ensuring reliability and excellent thermal performance.
- ©Perforated reflective headband - detachable and washable.
- ©IP66-rated protection and 2 meters impact resistance.
- ©Headlamp: 2.40" x 1.46" x 1.10"/61 x 37 x 28 mm.
- ©Battery case: 3.62" x 1.38" x 1.42"/92 x 35 x 36 mm.
- ©Weight: 7.02 oz/199 g.

Operating Instructions

On/off

On: with the lamp switched off, press and hold the switch ① or switch ② to turn on the white light or neutral white light.

Off: in any mode, press and hold for 0.5 seconds to turn off the lamp.

Mode Switching

The white light mode and the neutral white light mode are separately controlled by their respective switches.

With the lamp switched off, double click either switch to enter the red light mode.

Output Selection

In the white light mode, single click the white light switch to cycle through Low→Med→High→Turbo.

In the neutral white light mode, single click the neutral white light switch to cycle through Low→Med→High.

In the red light mode, single click either switch to select between Constant-on and Flash.

Battery case red light mode

On/off: press and hold the battery case switch for 0.5 seconds.

Output selection: single click the battery case switch to select between Flash(5 lumens) and Constant-on(5 lumens).

Intelligent Memory Circuit

The lamp automatically memorizes the last selected output of each mode. When turned on again, the previously used output of the currently selected mode will be recalled.

Lockout Function

Lock: with the lamp switched off, press and hold the two switches simultaneously for 3 seconds, the lamp will blink 4 times on the Low output of the white light to indicate locked status.

Unlock: with the lamp locked, press and hold the two switches simultaneously for 3 seconds, the lamp will blink 4 times and activate on the Low output of the white light to indicate the lamp is unlocked.

Note:

1. In locked status, the battery case can be operated. Still, other operations except for unlocking the headlamp will activate 4 blinks on the Low output of the white light to indicate locked status.
2. In locked status, re-inserting the battery will automatically unlock the headlamp.

Battery Specifications

Type	Dimensions	Nominal Voltage	Usability	
Fenix ARB-L18 Series	18650*	3.6 V	Recommended	√√
Non-rechargeable Battery (Li-ion)	CR123A	3.6 V	Usable	√
Fenix ARB-L16 Series	16340	3.0 V	Banned	×
Rechargeable Battery (Li-ion)	18650	3.6 V	Caution*	!

*18650 Li-ion batteries are powerful cells designed for commercial applications and must be treated with caution and handled with care. Using low-quality batteries or mishandling batteries (such as short-circuiting or overheating) could lead to combustion and jeopardize the safety of users and property. Any adverse effects resulting from the use of low-quality batteries are not covered by any Fenix warranty or liability. Using quality batteries with circuit protection will reduce the potential for combustion or explosion. It is recommended to use a Fenix ARB-L18 Series battery.

Battery Replacement

Unscrew the battery cap and insert the battery with the anode side (+) towards the inner side, then screw the battery cap back on.

Charging

1. Uncover the anti-dust cap on the battery case and plug the USB Type-C side of the cable into the port on the battery case.
2. When charging, the LED indicators will flash from bottom to top to display the charging status. The four indicators will be constant-on after charging is completed.
3. With the lamp switched off, the normal charging time of the Fenix ARB-L18-4000 battery is about 3.5

hours from depleted to fully charged with a 5 V/2.5 A or above charging adapter.

Note:

1. The lamp can be operated while charging.
2. Once charging is completed, be sure to unplug the charging cable and close the anti-dust cover.

Battery Level Indication

With the battery case switched off, single click the battery case switch to check the battery status.

Single click once again and the indicator(s) will go out, or without any operation the indicator(s) will last for 3 seconds.

Four lights on: 100% - 80%

Three lights on: 80% - 50%

Two lights on: 50% - 40%

One light on: 40% - 20%

One light flashes: 20% - 1%

*Note: This feature only works with a Fenix ARB-L18-4000 battery.

Intelligent Overheat Protection

The lamp will accumulate a lot of heat when used at high output levels for extended periods. When the lamp reaches a temperature of 60°C/140°F or above, it will automatically step down a few lumens to reduce the temperature. When the temperature drops below 60°C/140°F, the lamp will gradually recall the preset output level.

Low-voltage Warning

When the voltage level drops below the preset level, the lamp is programmed to downshift to a lower brightness level until the lowest output of the currently selected mode is reached. When the white light and the neutral white light are turned on at the same time, the lamp will automatically turn off the neutral white light and keep the Low output of the white light on. However, if the neutral white light is turned on alone, the lamp will automatically turn off the neutral white light and turn on the Low output of the white light. When the voltage level is still too low in the lowest output of the currently selected mode, the headlamp blinks 3 times every 5 minutes on the Low output of the white light to remind

users to replace or recharge the battery in a timely manner.

Headband Assembly

Notice: The headband is factory assembled and ready to use right out of the package.

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 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.

©Recharge a stored lamp every four months to maintain the optimum performance of the battery.

©Poor battery level may cause the lamp to flicker, shine intermittently or even fail to illuminate, please recharge the battery case in a timely manner. If this method doesn't work, please contact the distributor.

Included

Fenix HP12R-T headlamp, ARB-L18-4000 battery, USB Type-C charging cable, Spare O-ring, 2 x Cable clips, User manual, Warranty card