(ENGLISH)Fenix HM55R Headlamp

Technical Parameters

ANSI/PLATO FL1	Spotlight				Floodlight			Red light	
	Turbo	High	Med	Low	High	Med	Low	Constant-on	Flash
OUTPUT	1200 lumens	350 lumens	130 lumens	30 lumens	350 lumens	70 lumens	5 lumens	5 lumens	5 lumens
RUNTIME	2 hours 10 minutes*	6 hours 30 minutes	12 hours 40 minutes	47 hours 18 minutes	3 hours 40 minutes	17 hours 40 minutes	141 hours 10 minutes	43 hours	86 hours
DISTANCE	175 meters	88 meters	54 meters	27 meters	62 meters	24 meters	6 meters	4 meters	/
INTENSITY	7453 candela	1932 candela	724 candela	175 candela	948 candela	145 candela	10 candela	5 candela	/
IMPACT RESISTANCE	2 meters								
SUBMERSIBLE	IP68								

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-L18-1600 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 headlamp in the reach of children!

◎Do NOT shine the headlamp directly into the eyes of anyone!

◎Do NOT place light head near flammable objects, high temperatures can cause objects to overheat and become flammable/ignite!

◎Do NOT use the headlamp 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 headlamp will accumulate a significant amount of heat while operating, resulting in a high temperature of the lamp shell. Pay close attention to avoid burns!

◎Remove the battery or unscrew the battery cover to prevent accidental activation when the headlamp is placed in a closed and flammable environment such as pockets and backpacks!

◎The LEDs of this headlamp are not replaceable; so the whole lamp will need to be replaced if any one of the LEDs reaches the end of its lifespan.

Product features

◎1200 lumens maximum output, 175 meters maximum beam distance.

◎Uses one Luminus SST25 LED, one Luminus SST20V-Ra90 LED, one 2835 red LED; with a lifespan of 50,000 hours each.

◎Spotlight, floodlight and red light sources assist various lighting needs in various complex outdoor scenarios.

◎Powered by a user-replaceable ARB-L18-1600 rechargeable battery.

◎Large side switch for simple and convenient operation.

◎Intelligent brightness downshift function avoids danger caused by high temperature.

◎Inner waterproof USB Type-C charging port.

◎IP68-rated protection and 2 meters impact resistance.

◎Size: 2.52'' × 1.34'' × 1.73''/64 × 34 × 44 mm.

◎Weight: 3.70 oz/105 g(including battery and headband).

Operating Instructions

On/Off

On: With the lamp turned off, press and hold the switch for 0.5 seconds to turn on the white light or double click the switch to turn on the red light.

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

Mode Switching

In Spotlight mode, press and hold the switch for 1.2 seconds to switch to the previously used output of the Floodlight mode.

In Floodlight mode, press and hold the switch for 1.2 seconds to switch to the previously used output of the Spotlight mode.

Output Selection

Spotlight mode: Single click the switch to cycle through Low→Med→High→Turbo.

Floodlight mode: Single click the switch to cycle through Low→Med→High.

Red light mode: Single click the switch to select between Red constant-on and Red flash.

Intelligent Memory Circuit

The headlamp automatically memorizes the previously used output level and mode excluding Red light.

When turned on again, the previously used output level and mode will be recalled.

*When turned on in Spotlight mode, the headlamp will activate in High output if it was previously switched off in Turbo output.

Intelligent Brightness Downshift Function

On/off

On: With the lamp turned off, press and hold the switch for 6 seconds, and the headlamp will blink twice on the Low output of the Floodlight mode, indicating that this function is enabled.

Off: With the lamp turned off, press and hold the switch for 6 seconds, and the headlamp will blink 8 times on the Low output of the Floodlight mode, indicating that this function is disabled.

Intelligent downshift

When the light head is close to an illuminated object (about 2.36''/60 mm) for more than 1.5 seconds in Spotlight mode or Floodlight mode, the headlamp will automatically reduce the brightness level to 30 lumens to avoid potential danger/burns caused by high temperatures. When the light head is away from the illuminated object for more than 0.8 seconds, the headlamp gradually recalls the previously used brightness level.

Battery Specifications

Type	Dimensions	Nominal Voltage	Usability	
ARB-L18-1600	18350	3.6 V	Recommended	√√
ARB-L18-1100	18350	3.6 V	Usable	√
ARB-L18-1100P	18350	3.6 V	Usable	√
Other Rechargeable Battery (Li-ion)	18350	3.6 V	Usable	√
Other Rechargeable Battery (Li-ion)	16340	3.6 V	Usable	√
Non-rechargeable Battery (Li-ion)	CR123A	3.0 V	Caution*	!

*18350 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.

*CR123A batteries should be reserved for emergency use only. Do not recharge while using a CR123A battery! Using a CR123A battery will reduce available output levels and shorten runtime. For optimal performance, it is recommended to use a Fenix ARB-L18-1600 battery.

Battery Replacement

Unscrew the battery cover counterclockwise and insert the battery in accordance with the polarity marks, then screw the battery cover back on.

Charging

1. Uncover the anti-dust cap and plug the USB Type-C end 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. Once charging is completed, be sure to unplug the charging cable and close the anti-dust cover.

4. With the lamp turned off, the normal charging time of the included Fenix ARB-L18-1600 battery is approximately 2.5 hours from depleted to fully charged with a 5 V/1 A or above charging adapter.

Note:

1. The headlamp can be operated while charging.

2. When the battery level is lower than 3.3 V, only the Low output of each mode and the Red flash output can be activated.

3. Recharge a stored headlamp every four months to maintain the optimum performance of the battery.

*This feature only works with a Fenix ARB-L18-1600 battery, a Fenix ARB-L18-1100 battery, a Fenix ARB-L18-1100P battery, a Fenix ARB-L16-800UP battery, or a Fenix ARB-L16-700UP battery.

Battery Level Indication

With the lamp turned off, single click the switch to check the current battery level. Single click once again and the battery level indicator will go out, or without any operation the battery level indicator will last for 3 seconds. Each time the lamp is turned on, the battery level indicator will also indicate the current battery level and will last for 3 seconds.

Green light on: 100% - 80%

Green light flashes: 80% - 50%

Red light on: 50% - 20%

Red light flashes: 20% - 1%

*This feature only works with a Fenix ARB-L18-1600 battery, a Fenix ARB-L18-1100 battery, a Fenix ARB-L18-1100P battery, a Fenix ARB-L16-800UP battery, or a Fenix ARB-L16-700UP battery.

Intelligent Overheat Protection

The headlamp will accumulate a lot of heat when used at high output levels for extended periods. When the headlamp reaches a temperature of 55°C/131°F or above, it will automatically step down a few lumens to reduce the temperature. When the temperature drops below 55°C/131°F, the headlamp will gradually recall the preset output level.

Low-voltage Warning

When the voltage level drops below the preset level, the headlamp is programmed to downshift to a lower brightness level until the lowest output is reached. When this happens in the lowest output, the battery level indicator blinks red to remind users to recharge or replace the battery in a timely manner.

*This feature only works with a Fenix ARB-L18-1600 battery, a Fenix ARB-L18-1100 battery, a Fenix ARB-L18-1100P battery, a Fenix ARB-L16-800UP battery, or a Fenix ARB-L16-700UP battery.

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.

◎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 O-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: Poor battery level.

Solution: Recharge or replace the battery.

B: The contact or contact point 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 HM55R headlamp, ARB-L18-1600 battery, Spare O-ring, USB Type-C charging cable, User manual, Warranty card