



HL55
Max 900 Lumens

User Manual

Fenix HL55 Headlamp

The Fenix HL55 headlamp offers four brightness levels plus 900-lumen burst mode and 150-hour runtime from one 18650 battery or two CR123A batteries. Neutral white light means superior definition and penetration in high-humidity environments. A 116-meter carry distance reaches farther while the side switch on the head is all you need for ON/OFF, output selection and burst. With all-metal housing and ANSI rated, the HL55 matches all-season backcountry and cave exploration.

- Utilizes Cree XM-L2 T6 neutral white LED with a lifespan of 50,000 hours
- Uses one 18650 or two CR123A batteries
- 84mm (Length) × 46mm (Width) × 48mm (Height)
- 115-gram weight (excluding batteries)
- Digitally regulated output maintains constant brightness
- Reverse polarity protection guards against improper battery installation
- All-function switch in the head for easy and fast operation
- High output Burst mode
- Made from durable aluminum alloy
- Premium Type III hard-anodized anti-abrasive finish
- Toughened ultra-clear glass lens with anti-reflective coating

Technical Parameters

ANSI/NEMA FL 1	General Mode				Burst
	High	Mid	Low	Eco	
OUTPUT	420 Lumens	165 Lumens	55 Lumens	10 Lumens	900 Lumens*
RUNTIME	3h 45min	10h	30h	150h	/
DISTANCE	116m (Max)				
INTENSITY	3380cd (Max)				
IMPACT RESISTANT	1m				
WATERPROOF	IPX-8, underwater 2m				
ACCESSORIES	Headband, top headband, top headband mount and O-ring				

Notice: The above-mentioned parameters (lab tested by Fenix using one ARB-L2S Li-ion 18650 rechargeable battery) are approximate and may vary between lights, batteries and environments.
*When powered by two quality 3V CR123A batteries, the maximum output will be up to 945 lumens.

Operation

On/Off Operation

Press the side switch button on the head to activate the HL55; Press and hold the button on the head for 0.5 seconds to turn off the light.

Brightness Selection

With the headlamp on, press the button on the head to change brightness levels in the order of High → Eco → Low → Mid.

Burst Mode

Press and hold the button for over one second to activate the Burst mode. After 30 seconds, the HL55 returns to the previous condition.

Intelligent Memory Circuit

The headlamp memorizes the last used brightness level. The next time you turn on the headlamp, it will light up at the last used brightness level.

Battery Specifications

Type	Dimensions	Nominal Voltage	Usability	
Fenix ARB-L2	18650	3.7V	Recommended	✓
Fenix ARB-L2S	18650	3.7V	Recommended	✓
Fenix ARB-L2M	18650	3.7V	Recommended	✓
Non-rechargeable Battery (LiIum)	CR123A	3V	Usable	✓
Rechargeable Battery (Li-ion)	16340	3.7V	Banned	✗
Rechargeable Battery (Li-ion)	18650	3.7V	Cautious*	!
Rechargeable Battery (LiFePO4)	16340	3.2V	Usable	✓
Rechargeable Battery (LiFePO4)	18650	3.2V	Banned	✗

Note:
*18650 Li-ion batteries are powerful cells designed for commercial applications and must be treated with caution and handled with care. Quality batteries with circuit protection will reduce the potential risk for combustion or explosion but cell damage or short circuiting are potential risks the user assumes. We recommend using Fenix ARB-L2/L2S/ L2M 18650 battery.

Battery Replacement

Unscrew the nut (opposite to the side switch) and insert the battery follow the polar indicators. Replace the side cap and securely fasten the nut.

Assemble the Headlamp



Slide the buckle to adjust the length of the headband to fit your head size.



Attach the top headband mount to the headband and then attach the top headband to the headlamp holder and the top headband mount for additional stability.

Usage & Maintenance

- Please don't disassemble the sealed head, as doing so can cause damage to the light and will void the warranty.
- The O-ring may be worn out after using for a long time. If it happens, please replace the O-ring with a new one to keep the light properly sealed against water.
- Please clean the contacts of your light from time to time, especially if the light flickers or doesn't light up. There may be several reasons for a flickering or inoperative light:
Reason A: The battery needs replacing.
Solution: Replace the battery with positive (+) and negative (-) terminals properly aligned.

Reason B: The threads, PCB board contact or other contacts are dirty
Solution: Clean the contact points with an alcohol soaked cotton swab.

If the above methods don't work, please contact the distributor and refer to the warranty policy.

Product Warranty

We will replace products with manufacturing defects within 15 days of purchase and repair a light free of charge within 24 months of purchase if problems develop with normal use; if repair is required after 24 months from the date of purchase, we will charge for parts. The total repair fee is dictated by the cost of the replaced materials.

Product Registration

We kindly suggest that you register your product on the official website of Fenixlight Limited (www.fenixlight.com). You can get an extra six-month warranty period once you have successfully registered. By participating in an optional customer survey, you are entered in a drawing for free Fenix products.

Warning

HL55 is a high-intensity lighting device capable of causing eye damage. Avoid shining the light directly into the eyes. The light will accumulate heat after working in the burst mode for an extended period of time. In order to avoid injury, do not touch the metal part of the light head.