Fenix HM60R v2.0

Fenix HM60R V2.0 Rechargeable Headlamp Instruction Manual

Welcome to your Fenix HM60R V2.0 headlamp. This manual provides detailed instructions for safe and effective use, maintenance, and troubleshooting.

1. PRODUCT OVERVIEW

The Fenix HM60R V2.0 is a high-performance rechargeable headlamp designed for various outdoor and work activities. It features a powerful 1600-lumen output, versatile lighting modes including spotlight, floodlight, and red light, and a durable, waterproof construction. The headlamp is equipped with a USB-C fast charging port and an intuitive dual-switch operation for ease of use in challenging conditions.

Image 1.1: The Fenix HM60R V2.0 headlamp, showing its main unit, adjustable headband, USB-C charging cable, and a battery organizer.

2. PACKAGE CONTENTS

Upon opening the package, please verify that all items listed below are present and in good condition:

- Fenix HM60R V2.0 Headlamp
- ARB-L18-4000 Rechargeable Li-ion Battery (pre-installed)
- USB Type-C Charging Cable
- Spare O-ring
- User Manual (this document)
- LumenTac Organizer (may be included depending on retailer)

3. KEY FEATURES

The Fenix HM60R V2.0 headlamp incorporates several features designed for optimal performance and user convenience:

- **Powerful Brightness:** Delivers up to 1600 lumens with a beam distance of 185 yards.
- **Versatile Lighting Modes:** Features 4 Spotlight levels, 3 Floodlight levels, and a Red Light mode with two brightness options plus flash.
- **Easy Operation:** Glove-friendly top sliding switch for quick Spotlight/Floodlight selection, and a side switch for brightness adjustments.
- **Long Runtime & Fast Recharge:** Offers up to 292 hours on low floodlight mode; fully recharges in approximately 2.5 hours via a hidden waterproof USB-C port.
- **Rugged & Lightweight:** Weighs only 6.1 oz, rated IP68 waterproof, and impact-resistant up to 2 meters.
- **Durable Construction:** Made from A6061-T6 aircraft-grade aluminum alloy.
- **Comfortable Headband:** Features a comfortable and breathable headband with an additional top band for enhanced support.

4. SETUP AND CHARGING

4.1. Battery Installation

The Fenix ARB-L18-4000 Li-ion battery is typically pre-installed. If you need to install or replace the battery:

1. Unscrew the battery cap located on the side of the headlamp.
2. Insert the ARB-L18-4000 battery with the positive (+) terminal facing towards the headlamp head.
3. Screw the battery cap back on tightly to ensure a waterproof seal.

4.2. Charging the Headlamp

The HM60R V2.0 features a hidden USB Type-C charging port for convenience.

1. Locate the USB-C port cover on the side of the headlamp and unscrew it.
2. Plug the USB Type-C cable into the headlamp's port and connect the other end to a USB power source (e.g., wall adapter, power bank, computer).
3. The battery indicator light on the side switch will illuminate to show charging status.
4. Charging is complete when the indicator light turns solid green. The headlamp fully recharges in approximately 2.5 hours.
5. After charging, securely screw the port cover back on to maintain the headlamp's waterproof rating.

Image 4.1: The hidden USB Type-C charging port is revealed by unscrewing the side cap, allowing for convenient and safe charging.

4.3. Battery Level Indication

The side switch incorporates a battery level indicator to keep you informed of the remaining power:

- **Green Light (constant):** 85% - 100% charge
- **Green Light (flashing):** 50% - 85% charge
- **Red Light (constant):** 25% - 50% charge
- **Red Light (flashing):** 1% - 25% charge

5. OPERATING INSTRUCTIONS

5.1. Mode Selection (Spotlight, Floodlight, Red Light)

The Fenix HM60R V2.0 features an innovative top sliding switch for quick and easy selection between lighting modes:

- **Spotlight Mode:** Slide the top switch to the position indicated by the spotlight icon. This mode provides a focused beam for long-range illumination.
- **Floodlight Mode:** Slide the top switch to the position indicated by the floodlight icon. This mode offers a wide, even beam for close-up tasks and area lighting.
- **Lockout Position:** Slide the top switch to the position indicated by the lock icon to prevent accidental activation during transport or storage.

Image 5.1: The top sliding switch allows for intuitive selection between spotlight, floodlight, and lockout modes, even when wearing gloves.

5.2. Power On/Off and Brightness Adjustment

Once a mode (Spotlight or Floodlight) is selected using the top switch, use the large side button for power and brightness control:

- **To Turn On/Off:** Press and hold the side button for approximately 0.5 seconds.
- **To Change Brightness:** With the light on, single-click the side button to cycle through the available brightness levels within the selected mode (e.g., Low → Med → High → Turbo for Spotlight).

5.3. Red Light Mode

The red light mode is ideal for preserving night vision or for signaling.

- **To Access Red Light:** When the headlamp is off, quickly double-click the side button.
- **To Change Red Light Brightness/Mode:** With the red light on, single-click the side button to cycle through High Red → Low Red → Red Flash.

5.4. Smart Memory Function

The spotlight mode features a smart memory function. When you turn the headlamp back on in spotlight mode, it will recall the last used brightness level (excluding Turbo mode).

6. PERFORMANCE OVERVIEW

6.1. Spotlight Performance

The spotlight mode provides a focused beam, excellent for long-distance viewing and identifying objects far ahead.
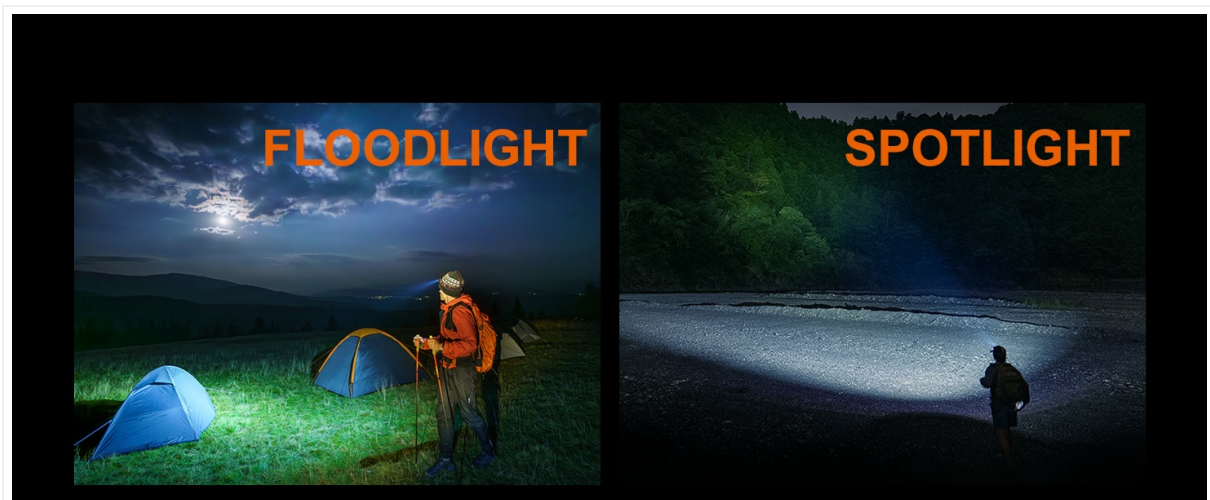

Image 6.1: The powerful spotlight mode illuminates a wide path ahead, demonstrating its 1600 lumens and 170-meter throw.

6.2. Floodlight Performance

The floodlight mode offers a wide, even beam, ideal for close-range tasks such as reading, setting up camp, or working in confined spaces without creating harsh shadows.

Image 6.2: The left side shows the floodlight mode providing broad illumination for a campsite, while the right side shows the spotlight mode for focused, long-distance visibility.

6.3. Red Light Performance

The red light mode is crucial for activities where preserving night vision is important, as it causes less pupil constriction than white light. It also serves as a discreet light source or a signaling beacon.

Image 6.3: The red light mode provides subtle illumination, ideal for maintaining night vision in a tent or for discreet use.

7. DURABILITY AND DESIGN

The Fenix HM60R V2.0 is engineered for resilience in demanding environments.

- **Robust Construction:** The headlamp body is constructed from durable A6061-T6 aircraft-grade aluminum alloy, ensuring longevity and resistance to wear and tear.
- **Waterproof and Dustproof:** With an IP68 rating, the headlamp is fully protected against dust ingress and can be submerged in water up to 2 meters for 30 minutes.
- **Impact Resistance:** Designed to withstand impacts from drops up to 2 meters, making it reliable in rugged conditions.

Image 7.1: The headlamp is shown under a stream of water, highlighting its IP68 waterproof and dustproof capabilities.

Image 7.2: The headlamp is positioned on rough terrain, symbolizing its ability to withstand impacts from drops up to 2 meters.

7.1. Headband Comfort

The headband is designed for extended wear, featuring comfortable and breathable materials. An additional top band provides extra support, distributing the headlamp's weight evenly for enhanced comfort during prolonged use.

8. TECHNICAL SPECIFICATIONS

Below are the detailed technical specifications for the Fenix HM60R V2.0 headlamp, measured according to ANSI/PLATO FL1 standards:

Fenix HM60R V2.0 Technical Parameters

Feature	Spotlight	Floodlight	Red Light
Output (Lumens)	Turbo: 1600, High: 600, Med: 130, Low: 30	High: 350, Med: 70, Low: 5	High: 20, Low: 3, Flash: 3
Runtime	Turbo: 3h 15m*, High: 5h, Med: 25h, Low: 74h 30m	High: 9h, Med: 25h, Low: 292h	High: 29h, Low: 185h, Flash: 370h
Distance (Meters)	Turbo: 170, High: 103, Med: 48, Low: 23	High: 36, Med: 14, Low: 4	High: 6, Low: 3, Flash: /
Intensity (Candela)	Turbo: 7223, High: 2659, Med: 575, Low: 133	High: 326, Med: 45, Low: 3	High: 8, Low: 3, Flash: /
Impact Resistance	2 meters		
Submersible	IP68		
Dimensions	3.46"D x 1.77"W x 1.8"H (88 x 45.7 x 45 mm)		
Weight	6.10 ounces (173 g) (including battery and headband)		
Material	A6061-T6 Aluminum Alloy		
Power Source	1 x ARB-L18-4000 Li-ion Battery (included)		

Note: *The Turbo output is measured in total runtime, including output at reduced levels due to temperature or protection mechanisms. Specifications are based on Fenix laboratory testing and may vary with environmental conditions and battery usage.

9. TROUBLESHOOTING

If you encounter issues with your Fenix HM60R V2.0 headlamp, please refer to the following common troubleshooting steps:

- **Light not turning on:** Check if the battery is correctly installed with the positive terminal facing the headlamp head. Ensure the battery is charged. Verify the top sliding switch is not in the lockout position.
- **Reduced brightness or flickering:** This may indicate a low battery level. Recharge the battery fully. Ensure the battery contacts are clean.
- **Charging issues:** Ensure the USB-C cable is properly connected and the port cover is fully unscrewed. Try a different USB power source or cable.
- **Water ingress:** If the headlamp has been exposed to water, ensure all caps and covers are tightly sealed. If water has entered, open the battery compartment and allow it to dry completely before reassembling.

For persistent issues not resolved by these steps, please contact Fenix customer support or your retailer.

10. WARRANTY AND SUPPORT

The Fenix HM60R V2.0 headlamp comes with a limited warranty. Please refer to the warranty card included in your package for specific terms and conditions. For product support, service, or warranty claims, please contact Fenix directly or visit their official website.

You can find more information and contact details on the Fenix Store on Amazon.

11. Product Video Overview

Watch this comprehensive video for a detailed overview of the Fenix HM60R V2.0 headlamp, including its features, operation, and performance demonstrations.

Video 11.1: A detailed review and instructional video for the Fenix HM60R V2.0 headlamp, demonstrating its various lighting modes, controls, and durable construction. This video provides practical insights into the headlamp's capabilities and user experience.