

Klarus HM1

Klarus HM1 IPX6 Waterproof Rechargeable Headlamp User Manual

Model: HM1

1. INTRODUCTION

Thank you for choosing the Klarus HM1 IPX6 Waterproof Rechargeable Headlamp. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your device. Please read it thoroughly before use and retain it for future reference.

2. PRODUCT OVERVIEW

The Klarus HM1 is a versatile and durable headlamp designed for various outdoor and indoor activities. It features a robust construction, multiple lighting modes, and convenient charging capabilities.



Image 2.1: Klarus HM1 Headlamp, showing its compact design and adjustable strap.

Key Features:

- **Extended Battery Life:** Up to 70 hours in low brightness mode, 8 hours in medium brightness.
- **Rapid Charging:** Full charge in approximately 2.5 hours via USB-C.
- **Smart One-Touch Control:** Simplifies operation with a 3-second delay shutdown and gesture sensing.

- **Military-Grade Durability:** IPX6 waterproof rating, ABS hard shell, and 2-meter drop resistance.
- **Ergonomic Comfort:** Lightweight (85 grams), 60° adjustable angle, and breathable strap.
- **High Brightness:** 440 lumens consistent output from American CREE XPG-3 LEDs.



Image 2.2: Overview of Klarus HM1 features including 440 lumens, USB charging, 1800mAh battery, 70 hours operation, IPX6 waterproof, and 70g weight.

3. SETUP

3.1. Charging the Headlamp

Before first use, fully charge the headlamp. The HM1 uses a USB-C port for fast charging.

1. Locate the USB-C charging port on the side of the headlamp.
2. Connect the provided USB-C charging cable to the headlamp and a compatible USB power source (e.g., wall adapter, power bank, computer USB port).
3. The battery indicator light will show the charging status:
 - Blue Light: 30%-100% charged
 - Red Light: 5%-30% charged
 - Red Light Flashing: 0%-5% charged
4. A full charge typically takes approximately 2.5 hours.

Charge for One Hour, Use for One Night

USB C Fast Charging and Long Life



Battery Indicator

Blue Light: 30%-100%

Red Light: 5%-30%

Red Light Flashing: 0-5%

Image 3.1: The Klarus HM1 headlamp connected to a USB-C charging cable, illustrating the battery indicator lights.

3.2. Wearing the Headlamp

Adjust the elastic headband for a comfortable and secure fit.

1. Place the headlamp on your head with the light unit positioned at the front.
2. Adjust the strap length using the buckles until it feels snug but not too tight.
3. The headlamp unit can be tilted up or down by 60 degrees to direct the light as needed.



Image 3.2: A person wearing the Klarus HM1 headlamp, demonstrating its adjustable angle for optimal illumination.

4. OPERATING INSTRUCTIONS

4.1. Power Button Operation (Manual Click)

The main power button controls the various lighting modes.

1. **Power On:** Press the power button once to turn on the headlamp. It will default to medium brightness.
2. **Cycle Modes:** While on, press the power button repeatedly to cycle through the modes: Medium (Spotlight) → High (Spotlight) → Turbo (Spotlight + Floodlight) → High (Floodlight) → Low (Floodlight).
3. **Power Off:** If the headlamp remains in any mode for more than 3 seconds, a single press of the power button will turn it off directly, without cycling through other modes. If less than 3 seconds, it will cycle to the next mode.

4.2. Motion Sensor Operation (Smart Sensing)

The motion sensor allows for hands-free control of the headlamp.

1. **Activate Motion Sensor:** With the headlamp on, press the motion sensor button (usually indicated by a wave icon). The motion sensor indicator light will illuminate.

2. **Hands-Free Control:** Once activated, wave your hand in front of the headlamp to turn the light on or off. This is particularly useful when your hands are occupied or wearing gloves.
3. **Deactivate Motion Sensor:** Press the motion sensor button again to turn off the motion sensing function.



Image 4.1: Illustration of the manual click operation for mode cycling and the smart-sensing feature for hands-free control.

5. MAINTENANCE

5.1. Cleaning

Regularly clean the headlamp to ensure optimal performance.

- Wipe the exterior with a soft, damp cloth.
- Do not use abrasive cleaners or solvents.
- Ensure the charging port cover is securely closed to maintain water resistance.

5.2. Storage

When not in use for extended periods, store the headlamp in a cool, dry place.

- Charge the battery every 3-6 months to prolong its lifespan.

- Avoid storing in direct sunlight or extreme temperatures.

5.3. Water Resistance

The Klarus HM1 is rated IPX6 waterproof, meaning it can withstand strong water jets. This makes it suitable for use in heavy rain or intense water flow, but it is not designed for submersion.



Image 5.1: The Klarus HM1 headlamp being subjected to strong water jets, illustrating its IPX6 waterproof capability.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Headlamp does not turn on.	Low battery or no charge.	Charge the headlamp fully.
Light is dim or flickers.	Low battery.	Recharge the headlamp.

Problem	Possible Cause	Solution
Motion sensor not responding.	Motion sensor is deactivated or obstructed.	Ensure the motion sensor is activated (indicator light on) and there are no obstructions. Try reactivating.
Headlamp not charging.	Faulty cable or power source.	Try a different USB-C cable or power adapter. Ensure the cable is fully inserted.

7. SPECIFICATIONS

Feature	Detail
Model	HM1
Light Output Maximum	440 Lumens
Power Source	Battery Powered (Lithium Polymer)
Battery Capacity	1800mAh (included)
Charging Time	Approx. 2.5 hours
Max Runtime	70 hours (low brightness)
Water Resistance Level	IPX6 Waterproof
Drop Resistance	2 meters (6.5 feet)
Light Source Type	LED (American CREEXP3-G)
Material	ABS, Rubber, Silver-plated
Item Weight	4.6 ounces (approx. 85 grams)
Product Dimensions	1.96"D x 3.54"W x 2.75"H
Color	Black Gray

8. WHAT'S IN THE BOX

The Klarus HM1 package includes:

- Klarus HM1 Headlamp
- Portable USB-C Charging Cable
- Spare Headband
- User Manual



Image 8.1: The Klarus HM1 headlamp, charging cable, spare headband, and user manual as included in the product package.

9. WARRANTY AND SUPPORT

The Klarus HM1 Headlamp comes with a 2-year warranty covering non-human damage. For any issues or inquiries, please contact Klarus customer support. They offer 24/7 expert support.

10. ADDITIONAL RESOURCES

Product Videos:

Klarus HM1 Bright Headlamp

Your browser does not support the video tag.

Video 10.1: This video provides a general overview of the Klarus HM1 headlamp, showcasing its brightness and utility in various outdoor settings, including camping and walking in low light conditions.

Klarus HM1 Waterproof Rechargeable Headlamp

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Video 10.2: This video highlights the IPX6 waterproof capabilities and the convenient USB-C recharging feature of the Klarus HM1 headlamp, demonstrating its resilience in wet conditions.