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› IMALENT HT70 Headlamp User Manual

IMALENT HT70

IMALENT HT70 Headlamp User Manual

Brand: **IMALENT** | Model: **HT70**

INTRODUCTION

The IMALENT HT70 is a powerful and versatile headlamp designed for various outdoor activities and professional use. It features multiple light sources, including a high-lumen main LED, auxiliary white light, and red light, offering up to 3500 lumens of brightness. Its durable aluminum construction, adjustable headband, and rechargeable battery make it an essential tool for camping, hiking, running, and other demanding environments.

WHAT'S IN THE BOX

Verify that all items are present in your IMALENT HT70 package:

- IMALENT HT70 Headlamp Unit
- 5000mAh 21700 Rechargeable Battery
- Type-C Charging Cable
- Elastic and Breathable Headband with Silicone Strip
- Top Strap for Headband
- Multifunctional Clip
- Spare O-rings
- Storage Case
- User Manual

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HT70 Triple Sources Full Metal Type-C
Rechargeable Headlamp



Carry With Confidence

The high quality clip is more secure on your backpack or clothes pocket, and it is made using thicker steel for greater durability and resistance to deformation.



Image: Contents of the IMALENT HT70 headlamp package, including the headlamp unit, battery, charging cable, headband, clip, spare O-rings, storage case, and user manual.

SETUP

Battery Installation

Before first use, ensure the battery is properly installed and any insulation film is removed.

1. Unscrew the tailcap of the headlamp unit.
2. Remove the circular insulation film from the positive end of the battery.
3. Insert the 5000mAh 21700 battery with the positive (+) end facing towards the headlamp head.
4. Screw the tailcap back on securely.

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3500 LM

Utilizing a primary Cree XHP 50.3 HI LED, the HT70 is upgraded with a max output of 3,500 lumens and specially designed for industrial maintenance, caving, rescuing, climbing and mountaineering.

Image: A hand inserting the 21700 battery into the headlamp unit after removing the insulation film from the positive terminal.

Headband Assembly

Attach the headlamp unit to the elastic headband for comfortable wear.

1. Align the headlamp unit with the mounting bracket on the headband.
2. Gently press the headlamp unit into the bracket until it clicks securely into place.
3. Adjust the straps of the headband to fit comfortably around your head. The top strap can be connected with a hook for added stability.

Video: Demonstrates the process of attaching the headlamp unit to the headband and adjusting the straps for a secure fit.

OPERATING INSTRUCTIONS

Power On/Off

- **To Turn On:** Press the power switch button once.
- **To Turn Off:** Press the power switch button once again.

Brightness Levels

While the headlamp is on, press and hold the power switch button to cycle through brightness levels: Moonlight, Low, Middle I, Middle II, High.

Turbo Mode

Double press the power switch button to activate Turbo mode (3500 lumens). Double press again to activate Strobe mode.

Light Source Selection

The HT70 features a mechanical slide switch to easily select between different light sources:

- **Left Position:** Auxiliary Red Light
- **Middle Position:** Primary White Light (Spot Beam)
- **Right Position:** High CRI Auxiliary White Light (Warm Light)



Image: Close-up of the headlamp showing the power button and the mechanical slide switch for selecting different light modes and adjusting brightness.

Charging

The HT70 headlamp is equipped with a waterproof Type-C charging port for convenient recharging.

1. Open the dust cover of the Type-C charging port located on the headlamp.
2. Connect the provided Type-C charging cable to the port and a power source.
3. The battery status indicator will show a red light while charging.
4. Once fully charged, the indicator light will turn green. Recharging takes approximately 3 hours.



Image: The headlamp connected to a Type-C charging cable, with the charging indicator light visible.

Video: [Demonstrates the charging process of the IMALENT HT70 headlamp, showing the Type-C port and indicator lights.](#)

KEY FEATURES

Triple Light Sources

The HT70 offers versatile lighting options with its triple light source design, allowing you to choose the perfect illumination for any situation.

- **Primary White Light:** A powerful spot beam for long-range visibility.
- **Auxiliary Red Light:** Ideal for preserving night vision and signaling.
- **High CRI Auxiliary White Light:** Provides warm, high color rendering illumination for close-up tasks.

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Triple Light Sources

Choose light and dark at will



Primary White Light



Auxiliary Red Light



High CRI Auxiliary
White Light (CRI≥80)



Image: Diagram illustrating the three distinct light sources of the HT70 headlamp: Primary White Light, Auxiliary Red Light, and High CRI Auxiliary White Light.

180° Adjustable and Detachable Design

The headlamp unit can be adjusted 180 degrees to direct light precisely where needed. It is also detachable from the headband, allowing it to be used as a handheld flashlight or for easy cleaning of the headband.

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Elastic and Breathable Headband Included With Silicone Sweat Diverting Strip



The top strap is connected with a hook, which is easy to adjust while also being stable and convenient.

The silicone strip hidden in the headband can divert sweat to the sides of head, preventing irritation on the eyes that caused by sweat ingress, while avoiding sliding of the headband.

Image: The headlamp unit detached from the headband, highlighting its 180-degree adjustability and the silicone sweat-diverting strip on the headband.

Magnetic Tailcap

The HT70 features a strong magnetic tailcap, providing a convenient hands-free lighting solution by attaching to any iron surface.

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Dual Switches Control

Mechanical switch to exchange light sources



Power Button
• On / Off
• Brightness Levels Adjustment

Image: The headlamp unit attached magnetically to a metal surface, demonstrating its hands-free capability.

Elastic and Breathable Headband

The headband is designed for comfort during extended wear, featuring an elastic and breathable material with a silicone sweat-diverting strip to prevent irritation.

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Image: Close-up of the headband showing its elastic material and the integrated silicone strip designed to divert sweat.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your IMALENT HT70 headlamp.

- **Cleaning:** Wipe the headlamp body with a soft, damp cloth. Do not use abrasive cleaners.
- **Battery Care:** Recharge the battery regularly, especially if the headlamp will not be used for an extended period. Avoid complete discharge to prolong battery life.
- **O-ring Maintenance:** Periodically lubricate the O-rings with silicone grease to maintain the waterproof seal. Replace O-rings if damaged.

TROUBLESHOOTING

If you encounter issues with your HT70 headlamp, refer to the following common problems and solutions:

- **Light Not Turning On:**
 - Ensure the battery insulation film has been completely removed.
 - Check if the battery is fully charged. Connect the headlamp to the Type-C charger and observe the indicator

light.

- Verify that the battery is inserted with the correct polarity (+ end towards the head).

- **Light Flickering or Dimming:**

- The battery may be low. Recharge the battery fully.
- Ensure the tailcap is screwed on tightly to maintain proper electrical contact.

SPECIFICATIONS

| Feature | Value |
|--------------------------|-------------------------------------------------------------|
| Special Feature | Long Range, Portable, Lightweight, High Power, Rechargeable |
| Color | 3500 Lumens HT70 |
| Power Source | Battery Powered |
| Light Source Type | LED |
| Material | Aluminum |
| White Brightness | 3500 Lumens |
| Included Components | Charging Cable |
| Product Dimensions | 3.7"D x 1.43"W x 1.01"H |
| Light Path Distance | 349 Meters |
| Battery Cell Composition | Lithium Ion |
| Item Weight | 189 Grams |
| Number of Batteries | 1 Lithium Ion batteries required. (included) |
| Water Resistance Level | Waterproof |
| Brightness | 3500 Lumen |
| Battery Description | Lithium-Ion |
| Runtime | 180 hours |
| Color Temperature | 6500 Kelvin |

WARRANTY AND SUPPORT

The IMALENT HT70 Headlamp comes with a limited warranty. The headlamp unit itself is covered by a 2-year warranty, while the included battery has a 1-year warranty.

For detailed warranty information, technical support, or service inquiries, please refer to the official IMALENT website or the contact information provided in your product packaging.