

Nitecore HC70 UHE

Nitecore HC70 UHE Headlamp

INSTRUCTION MANUAL

1. Product Overview

The Nitecore HC70 UHE is a high-performance, USB-C rechargeable headlamp designed for demanding outdoor and professional applications. It features a powerful 1600-lumen output, dual light sources (white and red), and is bundled with the Carbon 6K Battery Runtime Extender Kit for significantly extended operation.

This headlamp is built with durable aero-grade aluminum alloy, offering IP68 waterproof rating and 2-meter impact resistance, making it suitable for various challenging environments including night maintenance, search and rescue, outdoor work, and trekking.



Figure 1.1: Nitecore HC70 UHE Headlamp and Carbon 6K Battery Runtime Extender Kit.

Primary White Light

TURBO 1,600 Lumens	HIGH 1,000 Lumens	MID 500 Lumens	LOW 150 Lumens	ULTRALOW 8 Lumens	SOS 1,500 Lumens	BEACON 1,500 Lumens
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Auxiliary Red Light

HIGH 15 Lumens	LOW 5 Lumens	SLOW FLASHING 15 Lumens
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Figure 1.2: Common applications for the HC70 UHE Headlamp.

2. Package Contents

Verify that all items are present in the package:

- Nitecore HC70 UHE Headlamp
- Nitecore Carbon Battery 6K
- 2 x Headbands
- 2 x USB-C to USB-C Charging Cables
- Bracket
- Clips
- Storage Case

3. Setup

3.1 Attaching the Headlamp and Battery Pack

1. Attach the HC70 UHE headlamp unit to the front headband using the integrated bracket.
2. Secure the Carbon Battery 6K to the rear headband using its dedicated mount.
3. Connect the headlamp to the Carbon Battery 6K using one of the provided USB-C to USB-C charging cables. Ensure a secure connection.

3.2 Initial Charging

Before first use, fully charge the headlamp and the Carbon Battery 6K.

- Connect the USB-C charging cable to the headlamp's USB-C port and to a 5V/2A USB power adapter.
- The intelligent charging circuit allows for use while charging and automatically stops charging once the battery is full. Full charge typically takes 3 hours and 20 minutes.



4. Operating Instructions

4.1 Controls

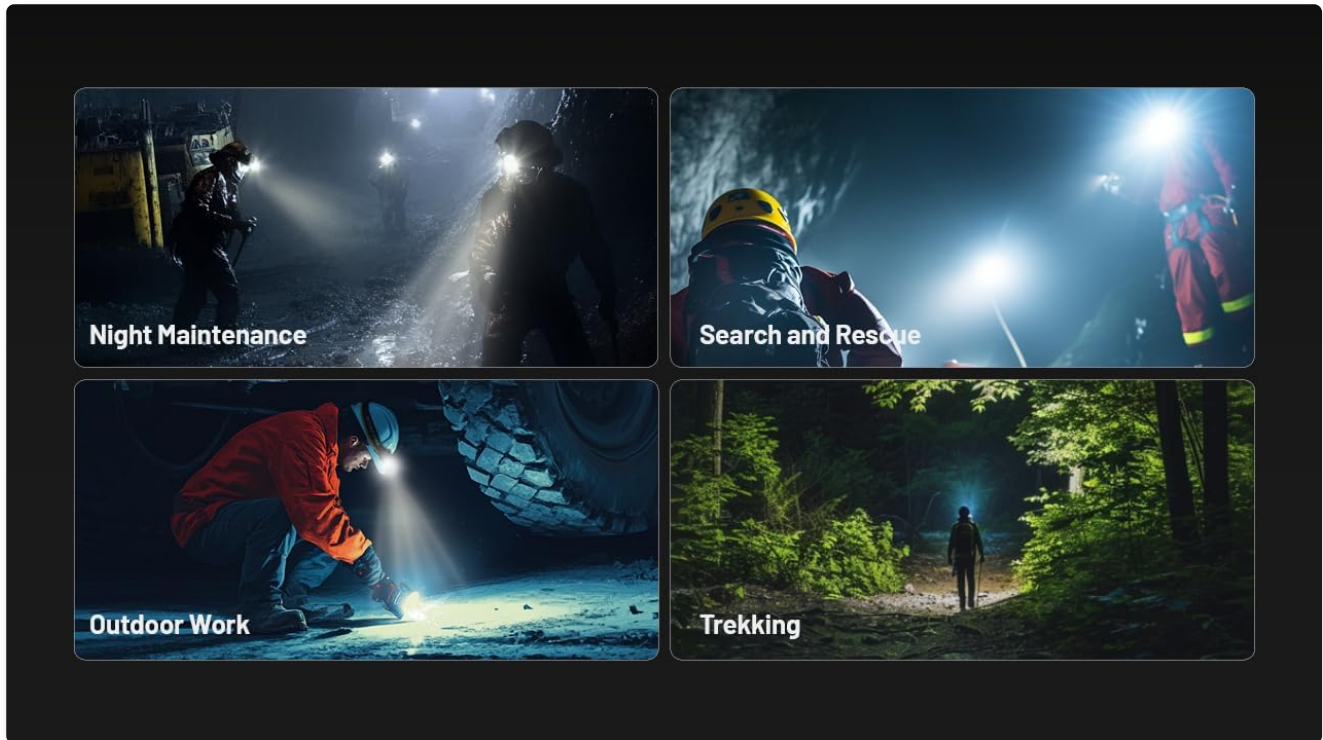


Figure 4.1: Location of Power Button and Mode Button.

- **Power Button:** Used for turning the headlamp On/Off and adjusting brightness levels.
- **MODE Button:** Used for switching between light sources (white/red) and accessing special modes.

4.2 Power On/Off

- To turn On: Press and hold the Power Button for 1 second.
- To turn Off: Press and hold the Power Button for 1 second while the light is on.

4.3 Brightness Levels and Modes

The HC70 UHE features both primary white light and auxiliary red light modes.

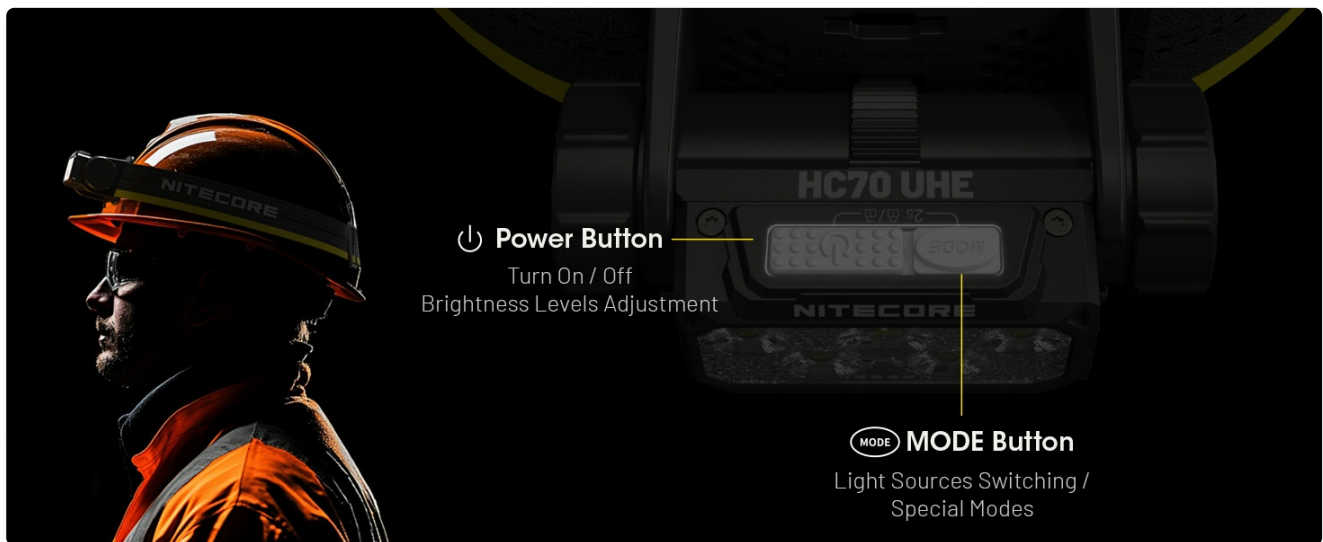


Figure 4.2: Primary White Light and Auxiliary Red Light Modes.

- **Primary White Light:** With the light on, short press the Power Button to cycle through brightness levels: ULTRALOW (8 Lumens) → LOW (150 Lumens) → MID (500 Lumens) → HIGH (1000 Lumens) → TURBO (1600 Lumens).
- **Auxiliary Red Light:** With the light on, short press the MODE Button to switch to red light. Short press again to cycle through red light modes: LOW (5 Lumens) → HIGH (15 Lumens) → SLOW FLASHING (15 Lumens).
- **Special Modes (SOS/BEACON):** With the white light on, long press the MODE Button to activate SOS mode. Long press again to activate BEACON mode. Short press the Power Button to exit special modes.

4.4 Red Safety Rear Light

The Carbon Battery 6K features a red safety rear light for added visibility.

- To turn On: Long press the Power Button on the Carbon Battery 6K for 1 second.
- To turn Off: Long press the Power Button on the Carbon Battery 6K for 1 second.

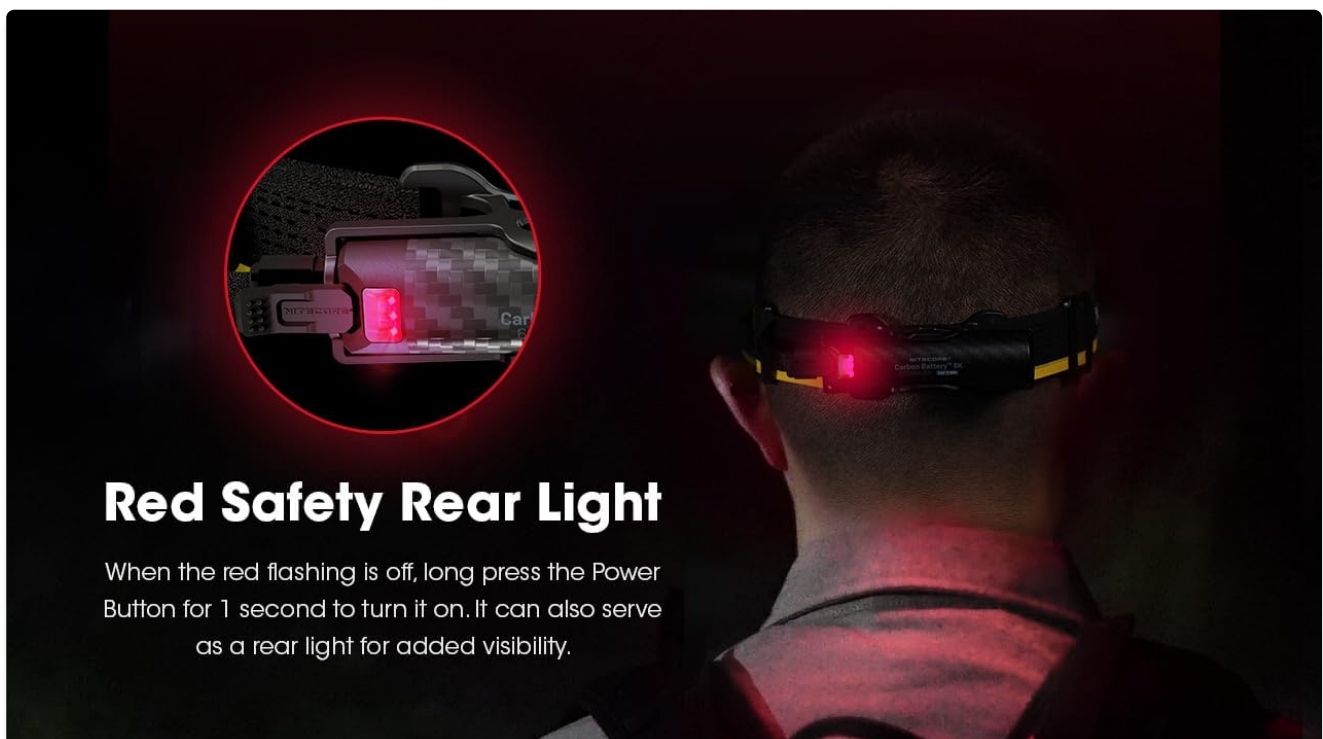


Figure 4.3: Red Safety Rear Light for enhanced visibility.

4.5 Power Indication

The headlamp provides an intuitive power indication system to show remaining battery life.


Red & White Dual Light Sources


Primary White Light

Ideal for various activities

The ULTRALOW Level is not dazzling for temporary lighting, providing a long-lasting runtime of 220 hours.

TURBO	HIGH	MID	LOW	ULTRALOW	SOS	BEACON
1,600 Lumens	1,000 Lumens	500 Lumens	150 Lumens	8 Lumens	1,500 Lumens	1,500 Lumens





Auxiliary Red Light

Effectively preserves night vision and repels mosquitoes and insects, ideal for emergency response, safety warning, and more.

HIGH	LOW	SLOW FLASHING
15 Lumens	5 Lumens	15 Lumens

Figure 4.4: Intuitive Power Indication.

- 4 Constant-on Blue Bars: 75% - 100% battery
- 3 Constant-on Blue Bars: 50% - 75% battery
- 2 Constant-on Blue Bars: 25% - 50% battery
- 1 Constant-on Blue Bar: 0% - 25% battery

4.6 Runtime Extension with Carbon Battery 6K

When connected to the Carbon Battery 6K, the headlamp's runtime is significantly extended. The Carbon Battery 6K prioritizes its power supply to the headlamp, preserving the headlamp's internal battery.



Double Up on Runtime


Connect the Carbon Battery™ 6K to your headlamp and enjoy longer runtime and more power support

Paired with

Model	Runtime up to
NU40	2x longer
NU43	1.6x longer
NU50	1.3x longer
HC65 UHE	1.2x longer



Figure 4.5: Double Up on Runtime with Carbon Battery 6K.



Prioritized Power Supply

When connected to the Carbon Battery™ 6K, the headlamp will first be powered by the Carbon Battery™ 6K to keep the headlamp's own battery.

Figure 4.6: Prioritized Power Supply from Carbon Battery 6K.

5. Maintenance

5.1 Cleaning

- Wipe the headlamp and battery pack with a clean, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the USB-C port protective cover is properly sealed to prevent dust and water ingress.

5.2 Storage

- Store the headlamp in a cool, dry place away from direct sunlight and extreme temperatures.
- For long-term storage, charge the battery to approximately 50% every three months to maintain battery health.

6. Troubleshooting

- **Light not turning on:** Ensure the battery is charged. Check that the headlamp and Carbon Battery 6K are securely connected.
- **Low brightness or short runtime:** Recharge the battery. Ensure the USB-C cable is fully inserted during charging. Battery performance may decrease in extremely cold conditions.
- **Red Safety Rear Light not working:** Ensure the Carbon Battery 6K is charged and the power button on the battery pack is pressed for 1 second.
- If issues persist, refer to the warranty information or contact Nitecore customer support.

7. Specifications

Detailed technical specifications for the Nitecore HC70 UHE Headlamp:

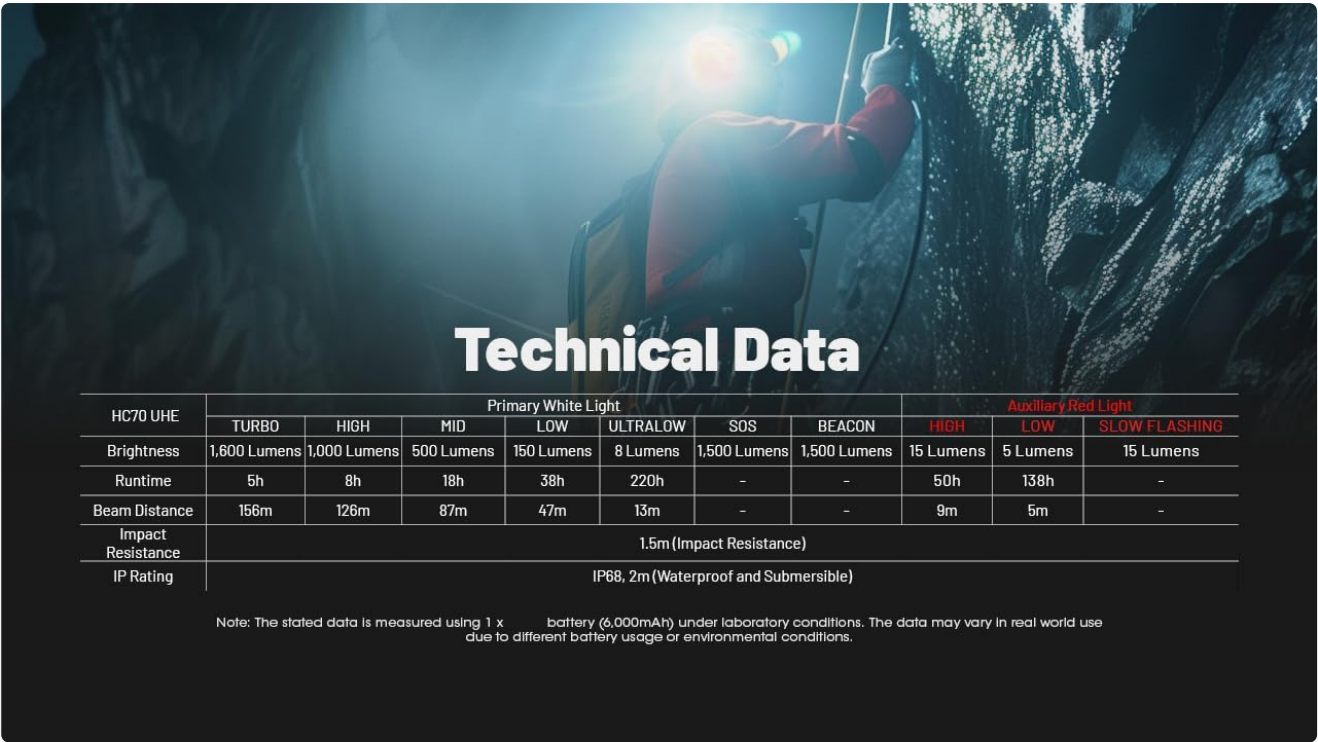


Figure 7.1: Technical Data for HC70 UHE Headlamp.

Feature	Specification
Model	HC70 UHE

Feature	Specification
Max Brightness	1600 Lumens
Max Beam Distance	156 meters (170 yards)
Power Source	Battery Powered (Lithium Ion)
Charging Port	USB-C (5V)
Material	Aero-grade Aluminum Alloy
Water Resistance	IP68 (Waterproof and Submersible)
Impact Resistance	2 meters
Special Features	Rechargeable, Dual Light Sources (White/Red), Runtime Extender Kit

8. Warranty and Support



8.1 Warranty Information





This Nitecore product comes with a limited warranty. Please refer to the warranty card included in your package for specific terms and conditions. Keep your purchase receipt as proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, troubleshooting, or warranty service, please contact Nitecore customer support through their official website or authorized distributors. You can find more information and contact details by visiting the [Nitecore Store on Amazon](#) or their global website.

Related Documents - HC70 UHE

	<p>NITECORE NU27 Headlamp User Manual</p> <p>User manual for the NITECORE NU27 headlamp, detailing its features, specifications, operation, safety warnings, and warranty information. Learn how to use the primary and auxiliary lights, special modes, and charging functions.</p>
	<p>NITECORE NU33 USB-C Rechargeable Headlamp - Features, Specs, and Operation Guide</p> <p>Comprehensive guide to the NITECORE NU33 headlamp, detailing its triple light sources, 700-lumen output, USB-C charging capabilities, technical specifications, operating instructions, and warranty information.</p>

	NITECORE MH12 Pro USB-C Rechargeable Compact Flashlight User Manual Discover the NITECORE MH12 Pro, a powerful 2000-lumen USB-C rechargeable compact flashlight with 330m throw and 650-hour runtime. This user manual provides detailed instructions for operation, charging, battery installation, and advanced temperature regulation.
	NITECORE NU53 Rechargeable Headlamp - User Manual & Features Comprehensive user manual for the NITECORE NU53 headlamp, detailing features, specifications, operation, safety warnings, charging, and warranty information. Features 1800 lumens, multiple light sources, and sensor protection.
	Nitecore NU25 / NU25 UL Dual Beam USB-C Rechargeable Headlamp User Manual User manual for the Nitecore NU25 and NU25 UL dual beam USB-C rechargeable headlamps. Details features, specifications, charging, operation modes (spotlight, floodlight, red light, SOS, beacon), power indication, warnings, and warranty.
	NITECORE NU32 High Performance Rechargeable Headlamp User Manual Comprehensive user manual for the NITECORE NU32 headlamp, detailing its features, technical specifications, operating instructions, charging, and warranty information. Features 550 lumens, white and red LEDs, USB rechargeable battery, and multiple brightness modes.

Documents - Nitecore – HC70 UHE

[\[pdf\]](#) User Manual Instructions Guide

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