Nitecore HC65 UHE

Nitecore HC65 UHE 2000 Lumens USB-C Rechargeable Headlamp User Manual

Model: HC65 UHE

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation, maintenance, and troubleshooting of your Nitecore HC65 UHE 2000 Lumens USB-C Rechargeable Headlamp with Carbon 6K Battery Runtime Extender Kit. Please read this manual thoroughly before use to ensure optimal performance and longevity of the product.

2. PACKAGE CONTENTS

- Nitecore HC65 UHE Headlamp
- Nitecore Carbon Battery 6K
- 2 x Headbands
- 2 x USB-C to USB-C Charging Cables
- Bracket
- Clips
- Storage Case

Image: The Nitecore HC65 UHE headlamp and the Carbon 6K battery runtime extender kit, showing all components included in the package.

3. SETUP

3.1. Headband Adjustment

Attach the headlamp to the headband. Adjust the elastic straps to ensure a secure and comfortable fit on your head. The headband is designed for stability during various activities.

3.2. Initial Charging

Before first use, fully charge the headlamp. The HC65 UHE features a built-in USB-C charging port. Connect the provided USB-C cable to the headlamp's charging port and to a compatible USB power source. A full charge typically takes approximately 2 hours.

Image: The Nitecore HC65 UHE headlamp connected to a USB-C charging cable, illustrating the charging process.
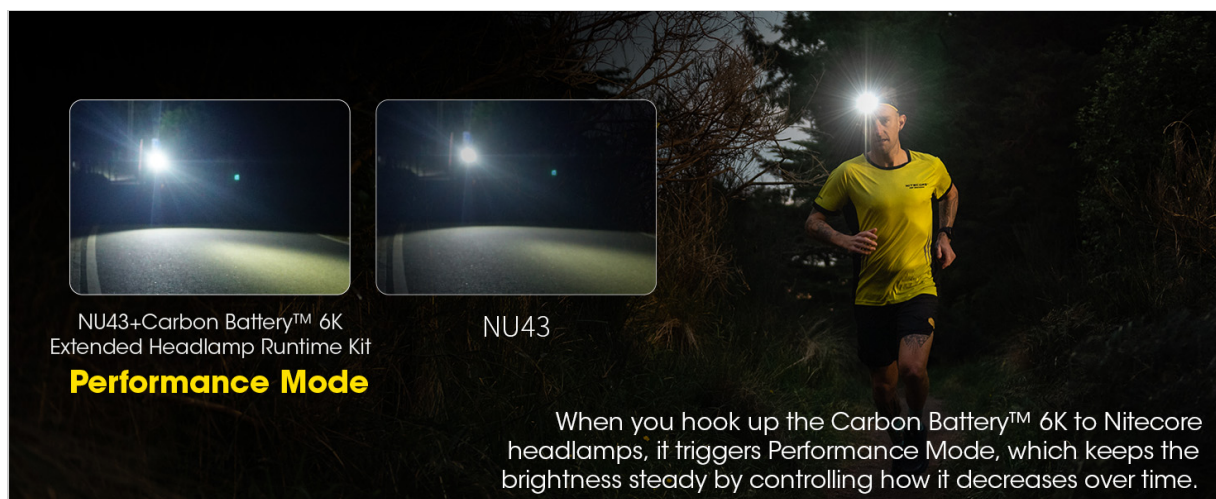

Image: A diagram showing the power indication system with blue LEDs, indicating battery levels from 25% to 100% based on the number of constant-on lights.

3.3. Connecting the Carbon 6K Battery Runtime Extender

The Carbon 6K Battery Runtime Extender can be connected to the HC65 UHE headlamp to significantly extend its operational time. Securely attach the Carbon 6K battery to the headband using the provided bracket and clips. Connect the quick-release cable from the Carbon 6K to the headlamp's designated port.

- The Carbon 6K provides a well-balanced weight distribution for comfort.
- When connected, the headlamp will prioritize power from the Carbon 6K, preserving the internal battery.

Image: The Nitecore HC65 UHE headlamp shown with the Carbon 6K battery runtime extender attached to the headband, illustrating the complete setup.
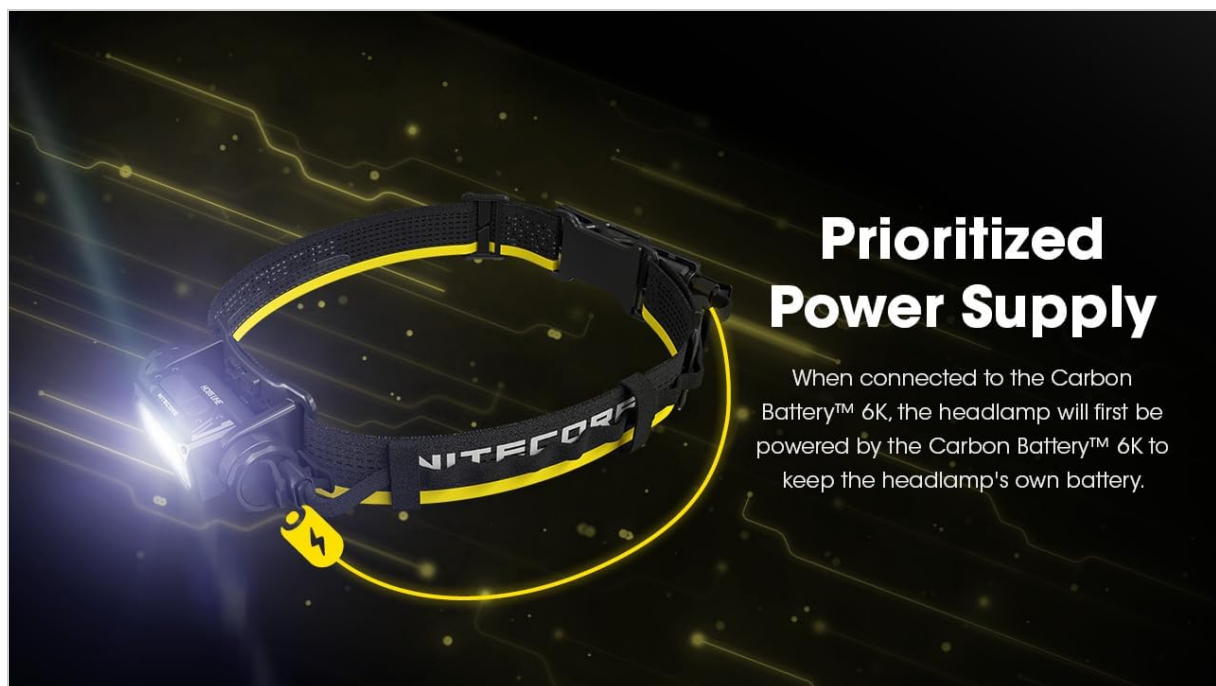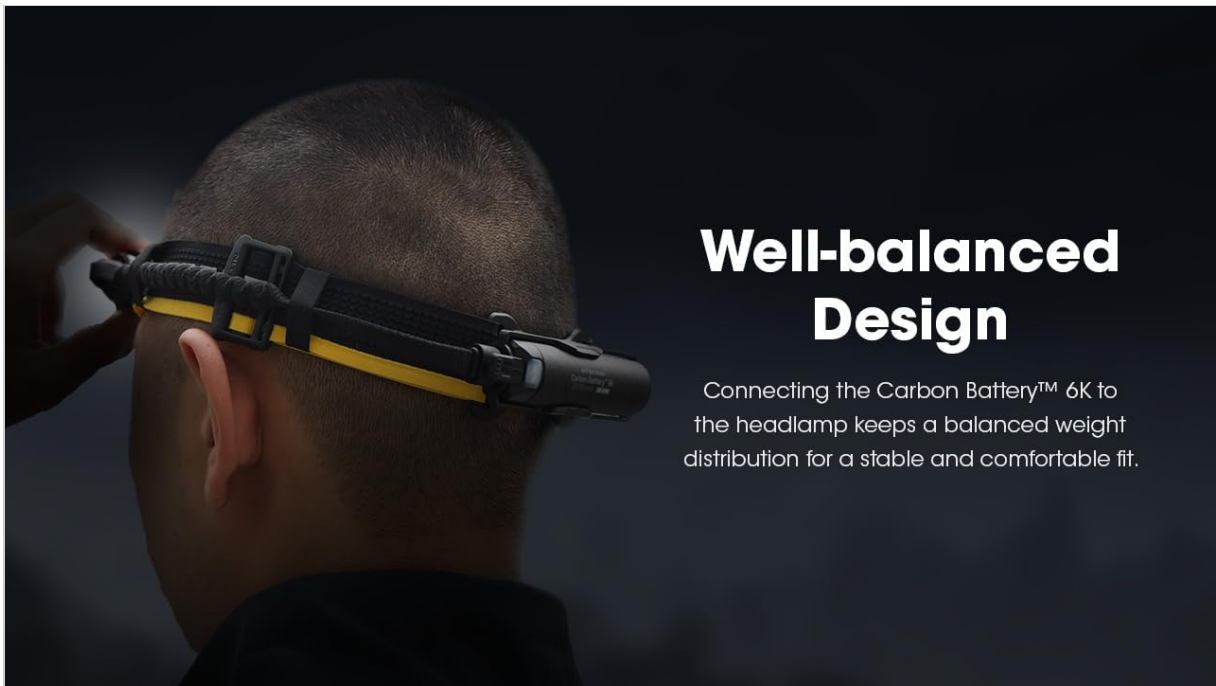

Image: An illustration demonstrating how the Nitecore HC65 UHE headlamp draws power from the Carbon 6K battery first when connected, indicated by a glowing yellow power line.

Image: A user wearing the Nitecore HC65 UHE headlamp with the Carbon 6K battery, highlighting the balanced weight distribution for comfortable wear.

4. OPERATING INSTRUCTIONS

4.1. Power On/Off

- To turn on the headlamp: Press and hold the Power Button for 1 second.
- To turn off the headlamp: Press and hold the Power Button for 1 second while it is on.

4.2. Mode Switching and Brightness Levels

The HC65 UHE offers a triple output system: Primary White Light, Auxiliary White Light (Reading Light), and Auxiliary Red Light.
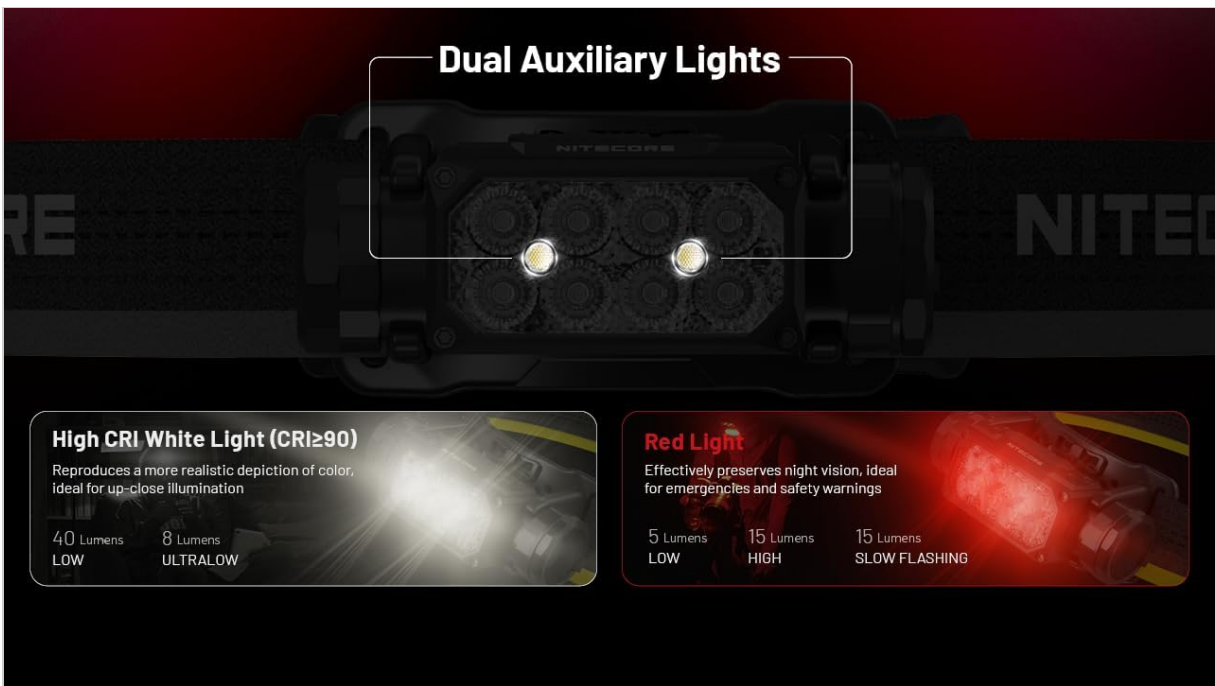

Image: A close-up view of the Nitecore HC65 UHE headlamp's front, highlighting the primary white LEDs and the two auxiliary lights (High CRI White and Red Light).

Primary White Light

- With the headlamp on, short press the Mode Button to cycle through brightness levels: ULTRALOW - LOW - MID - HIGH - TURBO.
- **Special Modes (SOS, Beacon):** With the headlamp on, double-press the Mode Button to activate SOS. Double-press again for Beacon. Short press to return to the previous brightness level.

Auxiliary White Light (Reading Light)

- With the headlamp off, press and hold the Mode Button for 1 second to activate the Auxiliary White Light.
- Short press the Mode Button to cycle between LOW and ULTRALOW.

Auxiliary Red Light

- With the headlamp off, press and hold the Power Button for 1 second to activate the Auxiliary Red Light.
- Short press the Mode Button to cycle between LOW, HIGH, and SLOW FLASHING.

4.3. Red Safety Rear Light

The Carbon 6K Battery features a red safety rear light for enhanced visibility. To turn it on, long press the Power Button on the Carbon 6K for 1 second.
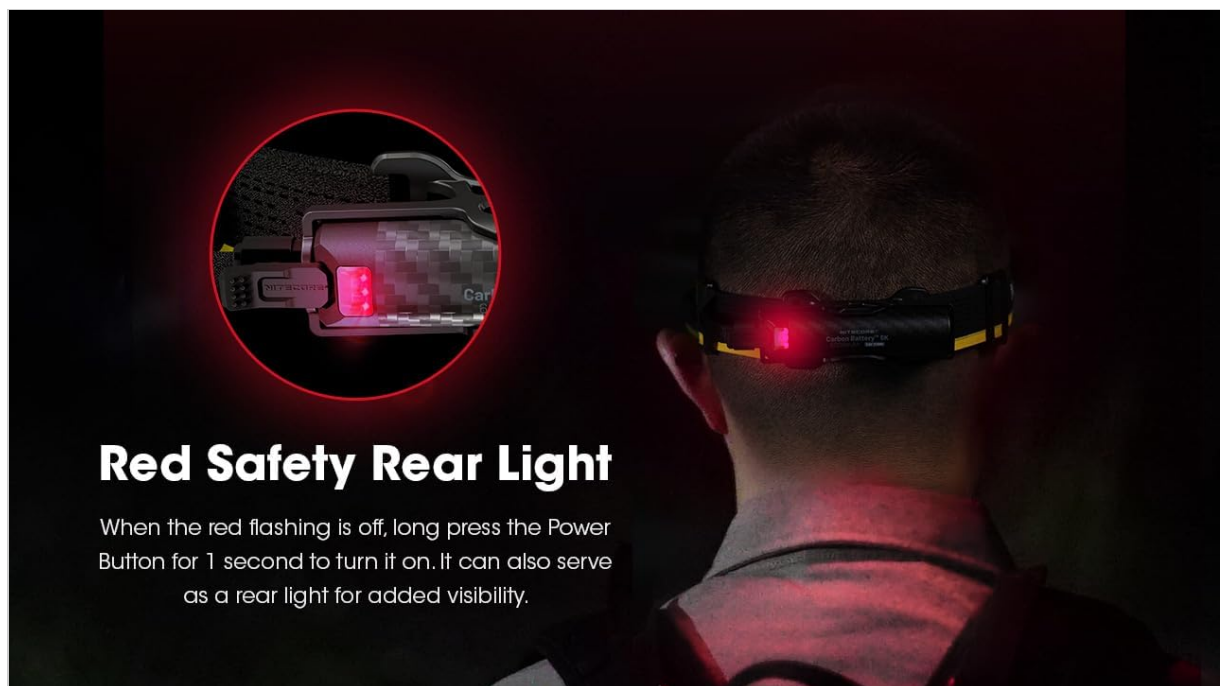

Image: A user wearing the Nitecore HC65 UHE headlamp with the Carbon 6K battery, clearly showing the illuminated red safety rear light on the back of the Carbon 6K unit.

5. MAINTENANCE

5.1. Cleaning

- Wipe the headlamp and headband with a soft, damp cloth.
- Do not use abrasive cleaners or solvents.
- Ensure the USB-C port cover is securely closed to maintain water resistance.

5.2. Storage

- Store the headlamp in a cool, dry place away from direct sunlight.
- For long-term storage, charge the battery every three months to prolong its lifespan.

6. TROUBLESHOOTING

- **Headlamp not turning on:** Ensure the battery is charged. Check if the battery is properly connected.
- **Dim light output:** The battery may be low. Recharge the headlamp.
- **Charging issues:** Verify the USB-C cable is securely connected to both the headlamp and the power source. Try a different USB-C cable or power adapter.
- **Carbon 6K not extending runtime:** Ensure the quick-release cable is firmly connected between the Carbon 6K and the headlamp.

If issues persist, please contact Nitecore customer support for further assistance.

7. SPECIFICATIONS

Technical Data

| | | Primary White Light | | | | | Auxiliary White Light | | Auxiliary Red Light | | |
		TURBO	HIGHER	HIGH	MID	SOS	BEACON	LOW	ULTRALOW	HIGH	LOW	SLOW FLASHING
Brightness		2,000 Lumens	1,300 Lumens	400 Lumens	100 Lumens	1,300 Lumens	1,300 Lumens	40 Lumens	8 Lumens	15 Lumens	5 Lumens	15 Lumens
Runtime		2h	5h	14h	31h	—	—	40h	82h	37h	66h	—
Beam Distance		222m	180m	100m	48m	—	—	12m	6m	8m	5m	—
Impact Resistance		2m (Impact Resistance)										
IP Rating		IP68, 2m (Waterproof and Submersible)										

Note: The stated data is measured using 1 x battery (4,000mAh) under laboratory conditions. The data may vary in real world use due to different battery usage or environmental conditions.
*TURBO Availability: The TURBO Level is only accessible when using an rechargeable Li-ion battery with a discharge current over 8A.

Image: A table detailing the technical specifications of the Nitecore HC65 UHE headlamp, including brightness levels, runtime, beam distance, impact resistance, and IP rating for Primary White Light, Auxiliary White Light, and Auxiliary Red Light.

Nitecore HC65 UHE Headlamp Key Specifications

Feature	Detail
Model	HC65 UHE
Maximum Brightness	2000 Lumens (Primary White Light)
Maximum Beam Distance	222 meters (243 yards)
Light Source Type	LED (UHE LED)
Power Source	Battery Powered (Lithium Ion)

Feature	Detail
Charging Port	USB-C (Waterproof)
Charging Time	Approx. 2 hours
Max Runtime	Up to 82 hours (Auxiliary White Light, Ultralow)
Water Resistance Level	IP68 (2 meters submersible)
Impact Resistance	2 meters
Weight	Approx. 3 ounces (headlamp only)
Special Features	Rechargeable, SOS, Beacon, Red Light, Reading Light, Carbon 6K Compatibility

Carbon Battery 6K Specifications

- Weight: 88g (3.10 oz)
- Built-in Battery: 6000mAh
- Energy Density: 245.5Wh/kg
- Function: Runtime Extender, Red Safety Rear Light

Stereoscopic Vision for Enhanced Safety

The 42mm light emitting surface, being closer to the interpupillary distance of human eyes than conventional point lights, helps illuminate objects fully with high precision, thus enhancing safety during outdoor activities.

Over 100°
Beam Angle of Primary Light

Image: A detailed view of the Nitecore Carbon Battery 6K, highlighting its lightweight design, 6000mAh capacity, and energy density.

8. SAFETY INFORMATION

- Do not shine the light directly into eyes.
- Keep out of reach of children.
- Do not disassemble or modify the headlamp or battery.
- Avoid exposing the product to extreme temperatures or open flames.
- Ensure the USB-C port cover is sealed when not charging to maintain water resistance.

9. WARRANTY AND SUPPORT

Nitecore products are covered by a warranty. For detailed warranty information, product registration, or technical support, please visit the official Nitecore website or contact your local distributor. Please retain

your purchase receipt for warranty claims.

For further assistance, you may visit the Nitecore Store on Amazon.

Related Documents - HC65 UHE

	Nitecore NU27 MCT: Посібник користувача, характеристики та інструкції Детальний посібник користувача для ліхтаря Nitecore NU27 MCT. Дізнайтеся про функції, технічні характеристики, безпеку та інструкції з експлуатації.
	NITECORE HC65 V2 Triple Output USB-C Rechargeable Headlamp User Manual User guide for the NITECORE HC65 V2 headlamp, covering features, specifications, operation, battery compatibility, charging, maintenance, and warranty. Features triple light sources, 1750 lumens max output, and USB-C charging.
	NITECORE HC65/HC65M Rechargeable Headlamp User Manual Comprehensive user manual for the NITECORE HC65 and HC65M rechargeable headlamps, detailing features, technical specifications, operating instructions, battery management, and charging procedures.
	NITECORE NU27 Headlamp User Manual 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.
	NITECORE NU33 USB-C Rechargeable Headlamp - Features, Specs, and Operation Guide 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.
	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.