

NITECORE®

HC60 UHE

High Performance
Rechargeable Outdoor Headlamp



UHE LED

UHE LED



1600
Lumens



4000mAh
18650 Battery



157
Meters



200h
Runtime

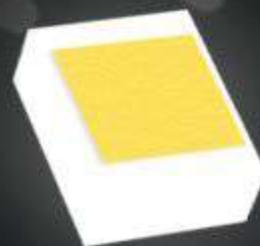


140 (4.94 oz)
Lightweight

These images are for guide purpose only, actual result may vary depending on ambient factors.
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NiteLab LED

UHE, short for Ultra High Efficiency, represents NiteLab's pioneering development in LEDs and is specifically designed for high-performance gear such as headlamps. It delivers enhanced efficiency per watt, offering a brighter, more energy-efficient, and long-lasting lighting experience.



UHE LED

21% ↑ in max luminous efficiency

190 lm/W

SST 40 LED

157 lm/W

6-Core

Matrix-Design UHE LED

4 single-core UHE LEDs and 1 dual-core UHE LED are combined to form into a 6-core lighting system.

1 dual-core UHE LED



4 single-core UHE LEDs

The HC60 UHE can deliver brilliant illumination thanks to the multi-faceted optical lens system. The beam is bright yet gentle, perfect for lighting up large spaces, and the soft spill helps reduce eye strain and glare, ensuring comfortable use for a long period.



TrueVision⁺

Optical Matrix Lens System

Offers brighter lighting and a longer range thanks to over 94% light transmission and a 411mm² large reflective surface that greatly reduce light loss and improve reflectivity.

Light Transmission > **94%**
14% ↑

Reflective Surface Comparison:

HC60 UHE

411mm²



Approx. 2.7x
larger than HC60 V2

HC60 V2

152mm²



Illuminate the Path Clearly and Safely

The HC60 UHE features a 44mm (1.73") wide light emitting surface, which is nearly 3.4 times wider than the HC60 V2. This design makes objects appear more three-dimensional with clear and natural light, keeping your outdoor life safer.





16000

Lumens

Blazing Output Through the Dark

The 6-core UHE LED setup helps improve the range and the brightness of the HC60 UHE, delivering up to 157 meters of range and 1,600 lumens max output, all in a lightweight design.

HC60 UHE 



Approx. 33.3% 

HC60 V2 

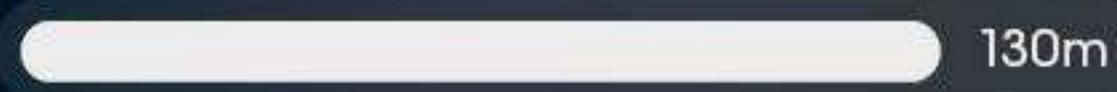


HC60 UHE 



Approx. 20.8% 

HC60 V2 



*The stated data is measured using 1 x NITECORE 18650 battery (4,000mAh) under laboratory conditions. The data may vary in real world use due to different battery usage or environmental conditions.

Includes a 4000mAh 18650 Rechargeable Li-ion Battery

for Longer Runtime

The included NITECORE NL1840 Li-ion battery delivers 17.6% more capacity than a typical 3,400mAh Li-ion battery on the market, providing a longer runtime for use.

100 Lm (LOW)

36h

400 Lm (MID)

14h

1,000 Lm (HIGH)

5h

1,600 Lm (TURBO)

3.5h



Red & White Dual Light Sources for Various Activities

Camping

Climbing

Trekking

Night Running

Trail Running

Outdoor Work

Primary White Light (Color Temperature: 6,000K)

For illuminating large spaces

Auxiliary Red Light

Effectively preserves night vision



Repels mosquitoes and insects, ideal for map reading, wildlife observation, emergency response, safety warning, stargazing, night photography, and more.



Double press the Power Button to quickly turn it on. Delivers gentle and energy-saving light perfect for nighttime use, with up to 200 hours of runtime.



TrueVision+ Technology
+
Adjustable Body
=
All-Round Illumination



180° All-Round Adjustable
Easily operate with one hand
and eliminate blind spots



> 100° Wide Range Beam Angle
Offers a clear and broad view



One-Hand Operable Dual Buttons Interface

Long press the Power Button for 1s to access the primary light;
long press either button to turn it off.

 **MODE Button**

Light Sources Switching / Special Modes

HC60 UHE



NITECORE

 **Power Button**

Turn On / Off
Brightness Levels Adjustment



Effortless Control Easy Switching

Accessing 5 brightness levels and 3 special modes with ease

5 Brightness Levels

TURBO	1,600 Lm
HIGH	1,000 Lm
MID	400 Lm
LOW	100 Lm
ULTRALOW	8 Lm

3 Special Modes

SOS	1,500 Lm
BEACON	1,500 Lm
SLOW FLASHING	15 Lm



Quick Access to ULTRALOW / TURBO

When off: double press the Power Button to access **ULTRALOW** 🌙

When on: double press the Power Button to access **TURBO** ☀️

Lightweight and Durable

The HC60 UHE weighs only 140g (4.94 oz) in total (battery, bracket, and headband included).

Constructed from aerospace-grade aluminum alloy and special PC material, the HC60 UHE offers excellent impact resistance and performs well in low temperatures. And its HA III military-grade hard-anodized finish ensures efficient heat dissipation and outstanding durability.

HC60 UHE 140g(4.94 oz) | **HC60 V2** 157g(5.54 oz)

Approx. 11% ↓



Intuitive Power Indication

(Patent Pending)

Power indicators are located inside the headlamp for an intuitive display.

Short press the MODE Button to show the remaining battery power directly.

- 1 Constant-on 0% – 25%
(Please recharge or replace the battery promptly)
- ■ 2 Constant-on 25% – 50%
- ■ ■ 3 Constant-on 50% – 75%
- ■ ■ ■ 4 Constant-on 75% – 100%



Dual Protection Safeguards



Transportation Guarantee

Adjusting the headlamp upward to avoid accidental activation during carrying or transportation.



Lockout Mode

When the headlamp is off, long press both buttons for 2 seconds to enter Lockout Mode.



*Note: The headlamp will be automatically unlocked when charging or replacing the battery in the Lockout Mode.

Skin Friendly Lightweight Headband



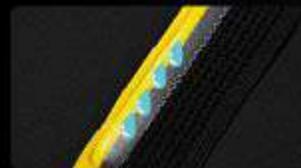
Widened



Hollow



Reflective



Keep the
sweat off

The headband features a breathable, hollow design that's gentle on the skin and highly elastic. The concealed widened silicone strip fits snugly around your head, keeping the headlamp securely in place while channeling sweat away from your eyes.

For added safety, reflective strips are designed to increase visibility to pedestrians and vehicles at night, keeping you safe wherever you go.





Intelligent Li-ion Battery Charging Circuit

Get a full charge in just 2 hours and keep using your device while it charges. (Charged via the 5V/2A adapter)
The intelligent charging circuit will automatically stop charging when the battery is full to protect both the battery and the headlamp.

*Data is calculated from NITECORE Lab for reference purposes only.



Technical Data



HC60 UHE	Primary White Light					Auxiliary Red Light			Primary White Light	
	TURBO	HIGH	MID	LOW	ULTRALOW	HIGH	LOW	SLOW FLASHING	SOS	BEACON
Brightness	1,600 Lumens	1,000 Lumens	400 Lumens	100 Lumens	8 Lumens	15 Lumens	5 Lumens	15 Lumens	1,500 Lumens	1,500 Lumens
Runtime	3h 30min	5h	14h	36h	200h	30h	95h	—	—	—
Beam Distance	157m	129m	81m	41m	11m	7m	5m	—	—	—
Impact Resistance	2m (Impact Resistance)									
IP Rating	IP68, 2m (Waterproof and Submersible)									

Note: The stated data is measured using 1 x 18650 battery (4,000mAh) under laboratory conditions. The data may vary in real world use due to different battery usage or environmental conditions.



Features

- Max output of 1,600 lumens
- Utilizes ultra high efficiency UHE LED
- Equipped with a primary white light (Color Temperature: 6,000K) and an auxiliary red light
- Utilizes an optical matrix lens system with various facets
- Includes a 4,000mAh 18650 high capacity Li-ion battery
- Highly efficient constant current circuit provides a stable output
- Built-in intelligent Li-ion battery charging circuit with a USB-C charging port (5V=2A)
- Designed with two buttons different in shape and touch, offering easy one-handed operation
- Offers 5 brightness levels, 3 special modes, and 2 brightness options for red light
- Designed with 4 power indicators to indicate the remaining battery power
- Constructed from PC and aero grade aluminum alloy
- HA III military grade hard-anodized finish
- Incorporated Advanced Temperature Regulation (ATR) module (Patent No. ZL201510534543.6)
- Includes a removable bracket
- Impact resistant to 2 meters
- Waterproof and dustproof rating in accordance with IP68 (2 meters submersible)