NITECORE HC60M V2 USB-C Rechargeable High Performance Headlamp User Manual

Contents

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NITECORE HC60M V2 USB-C Rechargeable High Performance Headlamp

Features

- Utilizes an OSRAM P9 LED with a max output of 1,200 lumens
- Max peak beam intensity of 4,240cd and max throw of 130 meters
- An optical system combined with crystal coating and “Precision Digital Optics Technology” (PDOT)
- Powered by 1 x 18650 or 2 x CR123 batteries with a max runtime of 680 hours
- One switch controls 5 brightness levels and 3 special modes
- Highly efficient constant current circuit provides a stable output
- The power indicator beneath the switch indicates the remaining battery power
- The power indicator can display the battery voltage (±0.1V)
- Built-in Li-ion battery charging circuit with a USB-C port
- Wide range flood optic system of 100° illumination angle specially designed for outdoor applications
- Incorporated Advanced Temperature Regulation (ATR) module (Patent No. ZL201510534543.6)
- 180° adjustable tilt angle
- Constructed from aero grade aluminum alloy
- HA III military grade hard-anodized finish
- Waterproof rating in accordance with IPX7
- Impact resistant to 1 meter

Specifications

HC60 V2 / HC60W V2

- **Dimensions:**
  84mm×35.8mm×53.5mm (3.31″×1.41″×2.11″) (Bracket Included)

- **Weight:**
  70g (2.47oz) (Bracket Included, Headband and Battery Not Included)
  108.5g (3.83oz) (Bracket and Headband Included, Battery Not Included)

HC60M V2

- **Dimensions:**
  84mm×50mm×46mm (3.31″×1.97″×1.81″) (NVG Mount Included)
- **Weight:**
  82g (2.89 oz) (NVG Mount Included, Battery Not Included)

Accessories

HC60 V2 / **HC60W V2**
NITECORE 18650 Rechargeable Li-ion Battery (NL1834 3,400mAh), Spare O-ring, USB-C Charging Cable, Spare Switch Cover, Headband, Bracket

HC60M V2
NITECORE 18650 Rechargeable Li-ion Battery (NL1834 3,400mAh), Spare O-ring, USB-C Charging Cable, Spare Switch Cover

Battery Options

	Type	Nominal Voltage	Compatibility
18650 Rechargeable Li-ion Battery (But ton Topped)	18650	3.6V/3.7V	Y (Recommended)
Primary Lithium Battery	CR123	3V	Y (Compatible)
Rechargeable Li-ion Battery	RCR123	3.6V/3.7V	Y (Compatible)
18650 Rechargeable Li-ion Battery (Flat Topped)	18650	—	N (Incompatible)

Note:

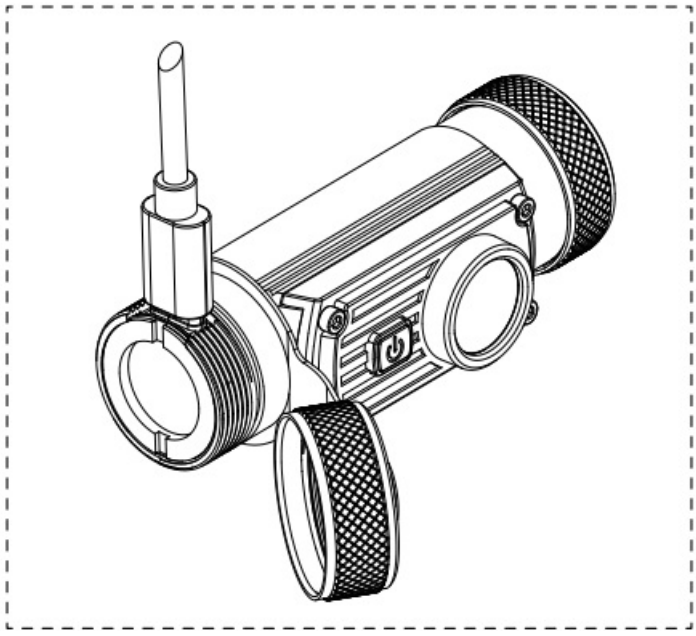
1. The product will NOT work when using a flat-topped 18650 battery.
2. DO NOT attempt to use the HC60 V2 / HC60W V2 / HC60M V2 to charge CR123/RCR123 batteries

Technical Data

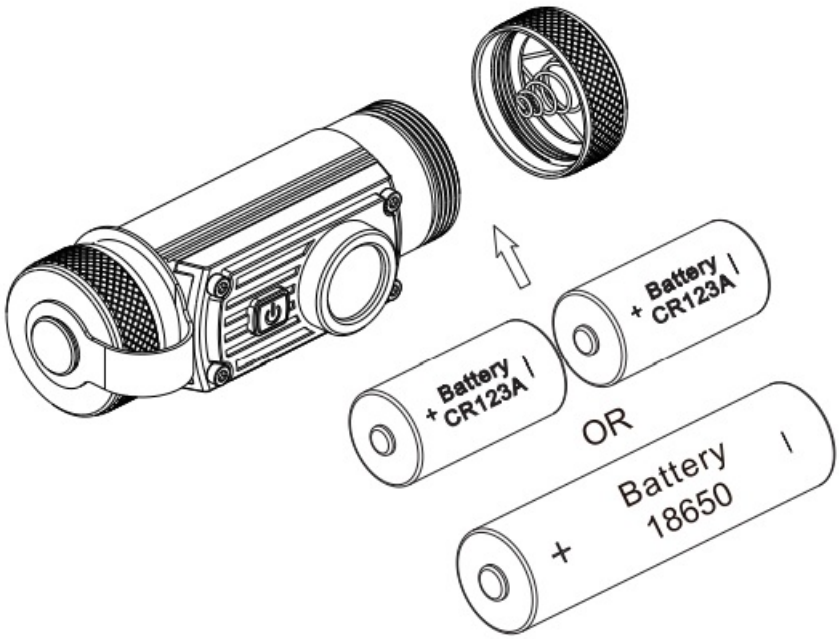
FL1 STANDARD	TURBO	HIGH	MID	LOW	ULTRALOW	STROBE	BEACON	SOS
	1,200 Lumens	450 Lumens	250 Lumens	40 Lumens	1 Lumen	1,200 Lumens	1,200 Lumens	1,200 Lumens
	*45min	2h15min	6h30min	26h	680h	—	—	—
	130m	78m	56m	28m	3m	—	—	—
	4,240cd	1,550cd	780cd	200cd	3cd	—	—	—
	1m (Impact Resistance)							
	IPX7							

Note:
The stated data is measured in accordance with the international flashlight testing standards ANSI/PLATO FL 1-2019, using 1 x 18650 Li-ion battery (3,400mAh) under laboratory conditions. The data may vary in real world use due to different battery usage or environmental conditions. The runtime of TURBO is tested without the temperature regulation.

Charging Function



Battery Installation



Warranty Service

All NITECORE® products are warranted for quality. Any DOA / defective product can be exchanged for a replacement through a local distributor/dealer within 15 days of purchase. After that, all defective/malfunctioning NITECORE® products can be repaired free of charge within 60 months from the date of purchase. Beyond 60 months, a limited warranty applies, covering the cost of labor and maintenance, but not the cost of accessories or replacement parts. The warranty will be nullified if

1. the product(s) is/are broken down, reconstructed and/or modified by unauthorized parties.
2. the product(s) is/are damaged due to improper use. (e.g. reversed polarity installation)
3. the product(s) is/are damaged due to battery leakage.

For the latest information on NITECORE® products and services, please contact a local NITECORE® distributor or send an email to **service@nitecore.com**
All images, text and statements specified herein this user manual are for reference purpose only. Should any discrepancy occur between this manual and information specified on **www.nitecore.com**, Sysmax Innovations Co., Ltd. reserves the rights to interpret and amend the content of this document at any time without prior notice.

Charging Function

The HC60 V2 / HC60W V2 / HC60M V2 is equipped with an intelligent charging system. As illustrated, unscrew the charging port cap after inserting the battery, use the USB cable to connect an external power supply (e.g. a USB adapter or other USB charging devices) to the charging port to begin the charging process.

- During the charging process, the power indicator will flash slowly to inform the user.
- When the battery is fully charged, the HC60 V2 / HC60W V2 / HC60M V2 will cease the charging process and the power indicator will become steadily turned on to inform the user.
- When the charging status is abnormal (e.g. the battery is defective or inserted incorrectly), the HC60 V2 / HC60W V2 / HC60M V2 will cease the charging process and the power indicator will flash quickly to inform the user.
- The charging time for an 18650 Li-ion battery (3,400mAh) is approx. 5 hours. (Charged via the 5V/1A adapter)

Operating Instructions

Battery Installation

Insert the battery(s) as illustrated and screw to tighten the battery cap.
Note: After the battery insertion, the power indicator will flash to indicate the battery voltage. Please refer to the "Power Indication" section of this manual for more details.

Warnings:

1. Ensure the battery(s) is/are inserted with the negative end towards the spring. The product will not work if the battery(s) is/are incorrectly inserted.
2. CAUTION! Possible dangerous radiation! Don't look into the light! May be dangerous for your eyes.
3. When the product is kept in a backpack or left unused for prolonged time, please remove all batteries to prevent accidental activation or battery leakage.

On / Off

On: When the light is off, long press the Power Button to turn it on.
Off: When the light is on, long press the Power Button to turn it off.
Note: The HC60 V2 / HC60W V2 / HC60M V2 has memory function. When reactivated, the headlamp will automatically access the previous memorized brightness level.

Brightness Levels

When the light is on, short press the Power Button to cycle through the following brightness levels: ULTRALOW – LOW – MID – HIGH – TURBO.

Direct Access to ULTRALOW / TURBO

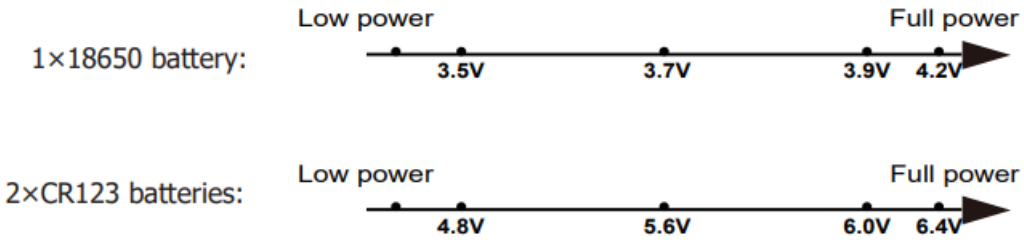
- **ULTRALOW:** When the light is off, short press the Power Button to directly access ULTRALOW.
- **TURBO:** When the light is off, press and hold the Power Button even after accessing the memorized brightness level until it accesses TURBO.

Special Modes (STROBE / SOS / BEACON)

When the light is off, double press the Power Button to access the STROBE Mode. When the STROBE Mode is on, short press the Power Button to cycle through the following special modes: SOS – BEACON – STROBE. When one of the special modes is on, long press the Power Button to exit special modes and turn off the light.

Power Indication

When the battery is inserted, the power indicator will flash to show the battery voltage (±0.1V). For example, when the battery voltage is at 4.2V, the power indicator will flash 4 times followed by a 1.5-second pause and 2 more flashes. Different voltages represent the corresponding remaining battery power levels:



ATR (Advanced Temperature Regulation)
The integrated ATR technology regulates the output of the HC60 V2 / HC60W V2 / HC60M V2 according to the working condition and ambient environment to maintain optimal performance.

Changing Batteries
The batteries should be replaced when the output appears to be dim or the headlamp becomes unresponsive due to low power.

Maintenance
Every 6 months, threads should be wiped with a clean cloth followed by a thin coating of a silicon-based lubricant.

Documents / Resources

	NITECORE HC60M V2 USB-C Rechargeable High Performance Headlamp [pdf] User Manual HC60 V2, HC60W V2, HC60M V2, USB-C Rechargeable High Performance Headlamp, HC60M V2 USB-C Rechargeable High Performance Headlamp, Rechargeable High Performance Headlamp, High Performance Headlamp, Headlamp

References

- NITECORE
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