NITECORE®
The All-Round Flashlight Expert

HC60 User Manual

Features

- A lightweight, high performance headlamp
- Purpose-designed for hiking, climbing, camping and general outdoor recreation
- Utilizes a CREE XM-L2 U2 LED
- Integrated “Precision Digital Optics Technology” provides extreme reflector performance
- High-efficiency regulation circuit provides up to 1000 lumens of output
- Powered by a single 18650 Li-ion or two CR123 batteries for up to 680 hours of runtime
- Innovative single button switch is remarkably user-friendly
- Five brightness levels and three special modes to select from
- Memory function for brightness levels
- Intelligent Li-ion battery charging circuit (via Micro-USB charging port)
- A custom catoptrics-based system produces an extremely wide 100° beam angle
- Features advanced temperature regulation (ATR) technology
- Light housing provides 180° vertical movement to eliminate illumination dead-zones
- Power indicator displays battery voltage (accurate to 0.1V)
- Reverse polarity protection
- Constructed from rugged PC material and aero-grade aluminum alloy
- Rugged HAIII military grade hard-anodized aluminum alloy
- Comfortable chafe-free and breathable nylon headband
- Impact resistant to 1.5 meters

Dimensions

Length: 3.11 inch (79mm)
Head diameter: 0.73 inch (18.5mm)
Body diameter: 1.06 inch (27mm)
Weight: 3.47 oz (98.5g, without battery)

Accessories

Nitecore 18650 battery (3400mAh),
Spare O-ring, button cover,
USB charging cord

Battery Options

	TYPE	Nominal voltage	Compatible
18650 Rechargeable Li-ion battery	18650	3.7V	Yes (Recommended and can be recharged)
Primary Lithium battery *	CR123	3V	Yes (Compatible but can NOT be recharged)
Rechargeable Li-ion battery *	RCR123	3.7V	Yes (Compatible but can NOT be recharged)

⚠ ***Warning:** Charge 18650 rechargeable Li-ion batteries only. Do not charge CR123 or RCR123 batteries.

Output & Runtime

FL1 STANDARD	TURBO	HIGH	MID	LOW	ULTRALOW
	1000 LUMENS	420 LUMENS	210 LUMENS	38 LUMENS	1 LUMEN
18650	1h	2h30min	7h15min	25h	680h
2×CR123	45min	2h15min	4h30min	22h	340h
	117m (Beam Distance)				
	3,400cd (Peak Beam Intensity)				
	1.5m (Impact Resistant)				
	IPX7, 1m (Waterproof AND Submersible)				

NOTICE:
The stated data has been measured in accordance with the international flashlight testing standards ANSI/NEMA FL1, using 1 x Nitecore 18650 battery (3.7V, 3400mAh) or 2 x CR123 batteries (3V, 1700mAh) under laboratory conditions. The data may vary in real-world use due to different battery use or environmental conditions.

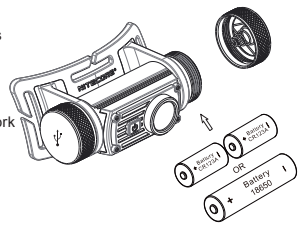
Operating Instructions

Battery Installation

Install one 18650 Li-ion or two CR123 batteries as illustrated.

Warning:

1. Install the battery (ies) with the positive end pointing inward. Otherwise the HC60 cannot work properly.
2. Do not direct beams towards human or animal eyes as doing so may damage sight.



On/Off Operation

To turn the HC60 on: Press the switch once;
To turn the HC60 off: Press and hold the switch. The HC60 will turn off and enter standby mode.

Brightness Levels

With the HC60 turned on, press the switch repeatedly to cycle through the following brightness levels Ultralow-Low-Mid-High-Turbo. The HC60 has a memory feature. By pressing and holding the switch for one second, it will resume the brightness level or special mode last used.

Direct access to turbo:
With the HC60 turned off, press and hold the switch for two seconds to enter turbo level (1000 lumens). Press and hold the switch again to turn it off.

Note: In standby mode, the HC60 can stand by for over two years on one 18650 battery.

Special Modes (Strobe/Location Beacon/SOS)

With the HC60 turned off, press the switch twice in quick succession to access strobe. To cycle through the special modes SOS-Location Beacon-Strobe, press the switch repeatedly. To exit a special mode, press and hold the switch to turn the HC60 off.

ATR Technology

Advanced temperature regulation (ATR) technology allows the HC60 to dynamically adjust output performance according to its body temperature. This prevents damage from overheating and prolongs its working life.

Power Tips

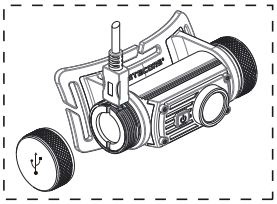
Upon battery installation, the blue power indicator blinks to indicate the voltage of the battery (accurate to 0.1V). For example, when battery voltage is 4.2V, the power indicator will blink 4 times in quick succession, followed by a 1.5 second pause and then another two blinks. Different voltages represent the corresponding remaining battery power levels:

18650 × 1: Low Power → Full Power
3.5V 3.7V 3.9V 4.2V

CR123 × 2: Low Power → Full Power
4.8V 5.6V 6.0V 6.4V

Charging

The HC60 is capable of charging a protected 18650 Li-ion battery using the included USB cable. Open the cap with ⚲ logo, install a protected 18650 Li-ion battery, plug one end of the USB cord into the HC60’s micro-USB port and the other end into a universal USB port (a computer, car charger, etc). Fully charging a depleted 18650 Li-ion battery takes approximately 6 hours.



1. If a problem (battery damage, reverse polarity, etc) is detected during the charging process, the HC60 will stop charging and the blue indicator built in the switch will blink rapidly.
2. Under normal charging conditions, the blue indicator will blink every 1.5 seconds. When charging is complete, the HC60 will automatically terminates charging, and the blue indicator will illuminate steadily.
3. Do not charge CR123 or RCR123 batteries in the HC60.

Changing / Charging Battery

Batteries should be replaced or recharged when output appears to be dim or the flashlight becomes unresponsive.

Maintenance

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

Warranty Details

Our authorized dealers and distributors are responsible for warranty service. Should any problem covered under warranty occurs, customers can contact their dealers or distributors in regards to their warranty claims, as long as the product was purchased from an authorized dealer or distributor. NITECORE’s Warranty is provided only for products purchased from an authorized source. This applies to all NITECORE products.

Any DOA / defective product can be exchanged for a replacement through a local distributor/dealer within the 15 days of purchase. After 15 days, all defective / malfunctioning NITECORE® products can be repaired free of charge for a period of 60 months (5 years) from the date of purchase. Beyond 60 months (5 years), a limited warranty applies, covering the cost of labor and maintenance, but not the cost of accessories or replacement parts.
The warranty is nullified if the product(s) is/are broken down, reconstructed and/or modified by unauthorized parties, or damaged by batteries leakage.

For the latest information on NITECORE® products and services, please contact a local NITECORE® distributor or send an email to service@nitecore.com.

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SYSMAX Ind.
SYSMAX Industry Co., Ltd.
TEL: +86-20-83862000
FAX: +86-20-83882723
E-mail: info@nitecore.com
Web: www.nitecore.com
Address: Rm1401-03, Glorious Tower, 850 East Dongfeng Road, Guangzhou, China 510600

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