NITECORE Headlamp User Manual

NITECORE®
KEEP INNOVATING

HCGO/HCGOM User Manual
■ USH Rechargeable
■ Power Indication
■ ATR Technology

Contents

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
- A 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 meter

Dimensions

HC60 Length: 3.29″ (83.5mm)
Head diameter: 0.73″ (18.5mm)
Body diameter: 1.06″ (27mm)
Weight: 3.47 oz (98.5g, Bracket and Headband Included, Battery Not Included)
1.94 oz (55g, Bracket, Headband and Battery Not Included)
HC6OM
Size: 3.29″ x 1.97″x1.81″ (83.5mmx50mmx46mm) (NVG Mount Included)
Head diameter: 0.73″ (18.5mm)
Weight: 2.91 oz (82.5g) (NVG Mount Induded, Battery Not Included)

Accessories

HC60
NITECORE 18650 battery (3400mAh), Spare 0-ring, button cover, USB charging cord, headband, bracket
HC6OM
NITECORE 18650 battery (3400mAh), Spare 0-ring, button cover, USB charging cord

Battery Options

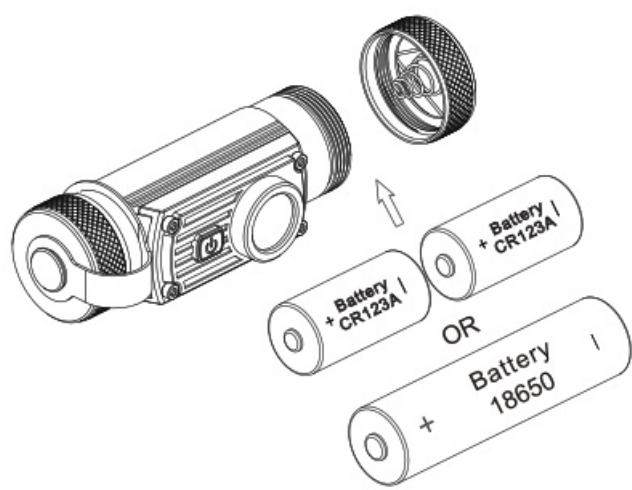|	TYPE	Nominal voltage	Compatible
18650 Rechargeable Li-ion battery	18650	3.7V	Yes (Recommended and can be recharged)
Primary Lithium battery *	CR123	3V	Yes (Compatible but can NOT be recharged)
Rechargeable Li-ion battery *	RCR123	37V	Yes (Compatible but can NOT be recharged)

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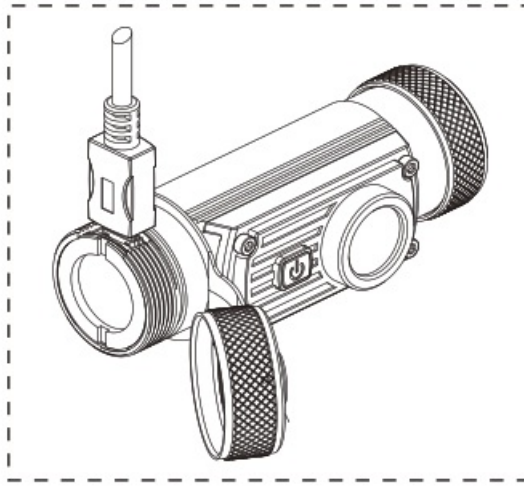
Technical data

FL1 STANDAD	TURBO	HIGH	MID	LOW	ULTRALOW	STROBE	SOS	BEACON
☀	1000 LUMENS	420 LUMENS	210 LUMENS	38 LUMENS	1 LUMEN	1000 LUMENS	1000 LUMENS	1000 LUMENS
🕐	lh	2h 30min	7h 15min	25h	680h			
🗑	117m	78m	56m	28m	3m			
◉	3400cd	1500cd	780cd	200cd	2.8cd	–	–	–
✔	1m (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 18650 battery (3.7V, 3400mAh) under laboratory conditions. The data may vary in real-world use due to different battery use or environmental conditions.

Battery Installation

Charging

HC60/HC6OM

Operating Instructions
Battery Installation
Install one 18650 U-ion or two CR123 batteries as illustrated.
Warning:
1. Install the battery (ies) with the positive end pointing inward. Otherwise the HC60/ HC6OM cannot work properly.
2. CAUTION! Possible dangerous radiation! Don't look into the light! Maybe dangerous for your eyes.
On/Off Operation
To turn the HC60/HC60M on: Press the switch once; To turn the HC60/HC6OM off: Press and hold the switch. The HC60/HC6OM will turn off and enter standby mode.
Brightness Levels
With the HC60/HC6OM turned on, press the switch repeatedly to cycle through the following brightness levels Ultralow-Low-Mid-High-Turbo. The HC60/HC6OM 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/HC6OM 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/HC6OM can stand by for over two years on one 18650 battery.
Special Modes (Strobe/Location Beacon/SOS)
With the HC60/HC6OM 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/HC6OM off.
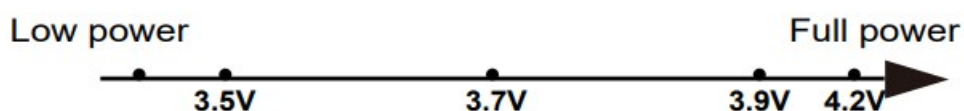**ATR Technology**
Advanced temperature regulation (ATR) technology allows the HC60/HC6OM to dynamically adjust output performance according to its body temperature. This prevents damage from overheating and prolongs its working life.
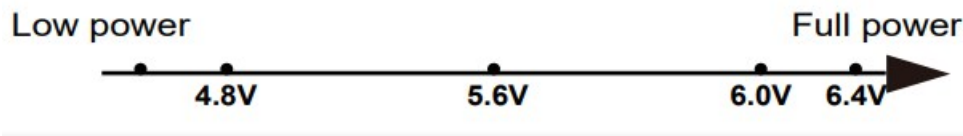**Power Tips**
Upon battery installation, the blue power indicator blinks to indicate the voltage of the battery (accurate to 0.1V). For example, when battery voltage is 4.2V, the power indicator will blink 4 times in quick succession, followed by a 1.5-second pause and then another two blinks. Different voltages represent the corresponding remaining battery power levels:

1×18650 battery

Low power ———————————————————→ Full power
3.5V   3.7V   3.9V   4.2V

2×CR123 batteries

Low power   Full power

•   •   •   •   •
    4.8V   5.6V   6.0V 6.4V

Charging

The HC60/HC60M is capable of charging a protected 18650 Li-ion battery using the included USB cable. Open the cap, install a protected 18650 Li-ion battery, plug one end of the USB cord into the HC60/HC60M'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/HC60M 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/HC60M will automatically terminate charging, and the blue indicator will illuminate steadily.

3. Do not charge CR123 or RCR123 batteries in the HC60/HC60M.

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 silicone-based lubricant.

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**

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HC03036020

Documents / Resources

	NITECORE Headlamp [pdf] User Manual Headlamp, HC60, HC60M

References

- **NITECORE**
- **NITECORE**