

## Features

- Purpose-designed for hiking, climbing, camping and general outdoor recreation
- All metal high-performance dual-beam headlamp
- Aluminum "unibody" construction is highly rugged and provides excellent cooling performance
- Utilizes a premium CREE XM-L2 (T6) LED
- Powered by a single 18650 lithium-ion battery for up to 565 lumens of output
- High-efficiency circuit provides up to 400 hours of runtime
- A custom catoptrics-based system produces an extremely wide 100° beam angle
- Light housing provides 90° vertical movement to eliminate illumination dead-zones
- Direct access to red light mode with a runtime of up to 145 hours
- Innovative single button two-stage switch is remarkably user-friendly (patented)
- Ten rapidly switchable brightness modes to select from
- Integrated red/green power indicator light displays remaining battery power (patented)
- Power indicator secondary function displays battery voltage accurate to 0.1V
- Integrated temperature sensor and intelligent temperature control ensure stable and safe use
- High-efficiency regulation circuit provides unwavering output
- Toughened ultra-clear mineral glass with anti-reflective coating
- Constructed from aero-grade aluminum alloy
- Rugged HAIII military grade hard-anodized
- Comfortable chafe-free and breathable nylon headband
- Waterproof in accordance with IPX-8 (two meters submersible)
- Impact resistant to 1.5 meters
- Tail stand capability

## Dimensions

Length: 86mm (3.39")  
 Diameter: 32mm (1.26")  
 Weight: 130g (4.59oz)(without battery)

## Accessories

Spare O-ring

## Battery Options

	SIZE	Nominal voltage	Compatible
Primary Lithium battery	CR123	3V	Y (Recommended)
18650 Rechargeable Li-ion battery	18650	3.7V	Y (Recommended)
Rechargeable Li-ion battery	RCR123	3.7V	Y

## Output & Runtime

FL1 STANDARD	TURBO	HIGH	MID	LOW	LOWER
	565 LUMENS	350 LUMENS	170 LUMENS	35 LUMENS	1 LUMENS
	1h15min	2h45min	6h15min	32h	400h
	1h	2h15min	5h15min	25h	250h
	85m (Beam Distance)				
	1820cd (Peak Beam Intensity)				
	1.5m (Impact Resistant)				
	IPX-8, 2m (Waterproof AND Submersible)				

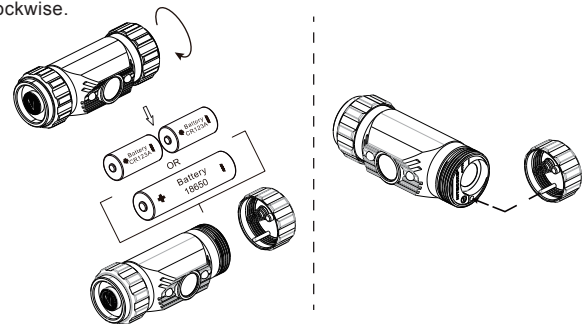
## NOTICE

The above data has been measured in accordance with the international flashlight testing standards ANSI/NEMA FL1 using one x 3.7V 2600mAh Nitecore 18650 battery and 2 x 3V 1550mAh Nitecore CR123 batteries under laboratory conditions. The data may vary slightly during real-world use due to battery type, individual usage habits and environmental factors.

**NITECORE (SYSMAX)** is a member of PLATO, participating in and helping to develop the ANSI/NEMA FL1 standard of measurement. Product testing data is in accordance with these internationally recognized scientific standards.

## Battery Installation

1. Insert batteries with the positive (+) and negative (-) ends corresponding to the diagram below.
2. Tighten the tail cap by aligning the two gold pins on the inside of the tail cap with the corresponding holes on the flashlight body and rotate clockwise.



Each time a battery is inserted, the power indicator light will blink to indicate battery voltage. Please refer to the "Power Tips" section of this manual for details.

## WARNING

Ensure when turning the HC50 on, the beam is directed away from the eyes of people or animals.

## General Operation

The HC50 utilizes a 2-stage switch similar to a camera shutter button. The light's numerous functions are selected according to the depth the switch is pressed.

With the light turned off, fully press and release within a second to turn on. The brightness level displayed will be the last level that was used. Repeat to turn off.

## Brightness Selection

With the light turned on, press the switch half way down repeatedly to cycle through the following output modes: ultra-low, low, medium, high and turbo. A given brightness level will be memorized each time the light is turned off while that level is displayed.

NB:

1. Medium brightness is the default brightness level when loading a battery for the first time.
2. Every time the main white LED lamp is turned on, an integrated red / green light will illuminate to indicate battery status. Please refer to the "Power Tips" section of this manual for details.

## Special Police Warning / SOS mode and Location Beacon

With the light turned on, fully press the switch twice in quick succession to turn on the police warning mode. Half press the switch repeatedly to cycle through location beacon, SOS and police warning modes. Fully press to exit special mode and turn the light off.

## Red Light Illumination / Signal light

With the light turned off, press the switch all the way down and hold for more than one second to enter into red light illumination mode (1.2 lumens).

When in red light mode, press the switch half way repeatedly to cycle through red light signal mode and standard red light mode. Fully press the switch to turn the light off.

## Power Tips

Whenever the main lamp (white LED) is switched on, a power indicator built into the switch will either illuminate or blink green or red to indicate battery status.

1. When main light is turned on, the green power indicator will illuminate for two seconds when power levels are over 50%.
2. When main light is turned on, the red power indicator will illuminate for two seconds when power levels are below 50%.
3. With the main light turned on, the red power indicator will blink rapidly when power levels are very low and the battery needs to be recharged and replaced.
4. Each time a new battery is inserted, the green power indicator light will blink in various sequences to indicate battery voltage (accurate to  $\pm 0.1V$ ). For example, when battery voltage is at a maximum of 4.2V, the power indicator will blink 4 times in quick succession, followed by a one second pause and then two more successive blinks, indicating a total battery voltage of 4.2V.

## Thermal protection

As the HC50 is very compact, extended operation in turbo mode will cause the body temperature to continually rise, thus making it too hot to use comfortably. As a result, NITECORE does not recommend using the HC50 in turbo mode for extended periods. To prevent overheating, the HC50 will lower its output after three minutes' used of Turbo mode. The HC50's built-in thermal protection sensor prevents overheating and will automatically reduce output when a temperature of 55°C is reached. This function ensures user safety and protects the headlamp from failure / damage.

**Precaution:** When the headlamp is hot, do not attempt to cool it by submerging in liquid as differences in internal and external air pressure may cause water ingress and irreparable damage.

## Changing Batteries

When the power indicator blinks rapidly it means the batteries need to be replaced or recharged. Alternatively if the light becomes dim or unresponsive this also indicates batteries need to be replaced.

## Maintenance

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

## Warranty Service

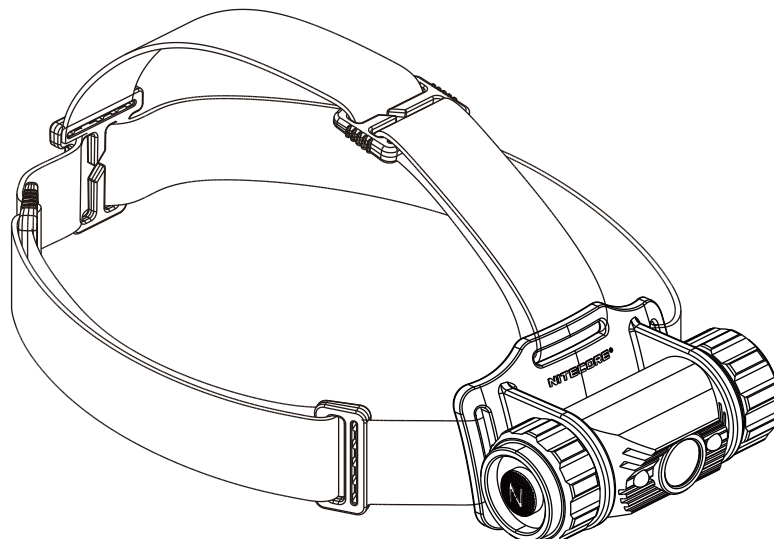
All NITECORE® products are warranted for quality. DOA / defective products can be exchanged for replacement through a local distributor/dealer within the 14 days of purchase. After 14 days, all defective / malfunctioning NITECORE® products will be repaired free of charge for a period of 18 months from the date of purchase. After 18 months, a limited warranty applies, covering the cost of labor and maintenance, but not the cost of accessories or replacement parts. The warranty is nullified in all of the following situations:

1. The product(s) is/are broken down, reconstructed and/or modified by unauthorized parties.
2. The product(s) is/are damaged through improper use.
3. The product(s) is/are damaged by leakage of batteries.

For the latest information on NITECORE® products and services, please contact your national NITECORE® distributor or send an email to [service@nitecore.com](mailto:service@nitecore.com)



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