

## Features

- Utilizes a CREE XM-L2 U2 LED
- Maximum output of up to 1000 lumens
- Integrated "Precision Digital Optics Technology" provides extreme reflector performance
- Boasts a peak beam intensity of 13,500 cd and a throw distance of up to 232 meters
- High efficiency constant current circuit board provides max runtime of 520 hours
- Mode switch offers access to four brightness levels and three special modes
- Integrated power indicator light displays remaining battery power (Chinese Patent: ZL201220057767.4)
- Power indicator's secondary function displays battery voltage (accurate to 0.1V)
- Charging module with a micro USB port charges Li-ion batteries rapidly
- Features intelligent memory effect (except for SOS and location beacon modes)
- High-efficiency regulation circuit provides unwavering output
- Stainless steel clip included
- Toughened ultra-clear mineral glass with anti-reflective coating
- Reverse polarity protection prevents damage from incorrectly inserted batteries
- Constructed from aero grade aluminum alloy with HAIII military grade hard-anodized finish
- Waterproof in accordance to IPX8 (two meters submersible)
- Impact resistant to 1.5 meters
- Tail stand capability

## Dimensions

Length: 5.47" (139mm)  
 Head Diameter: 1" (25.4mm)  
 Tail Diameter: 1" (25.4mm)  
 Weight: 3.10oz (88grams) (without battery)

## Accessories

Nitecore 18650 battery (NL188 3200mAh),  
 USB charging cable, holster, clip, tactical  
 ring, lanyard, spare switch cover, spare  
 O-ring, spare USB port cover

## Battery Options

	TYPE	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	N

## Output & Runtime

FL1 STANDARD	HIGH	MID	LOW	LOWER	STROBE	SOS	LOCATION BEACON
	1000 LUMENS	240 LUMENS	70 LUMENS	1 LUMEN	1000 LUMENS	1000 LUMENS	1000 LUMENS
	1h15min	6h	28h	520h	---	---	---
	1h	5h15min	20h	300h	---	---	---
	232m	94m	45m	5.6m	---	---	---
	13500cd	2200cd	500cd	8cd	---	---	---
	1.5m (Impact Resistant)						
	IPX8, 2m (Waterproof AND Submersible)						

## NOTICE

The above data has been measured in accordance with the international flashlight testing standards ANSI/NEMA FL1, using 1 x 18650 battery (3.7V, 2600mAh) 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

Insert 1x18650 battery or 2xCR123 batteries as illustrated.

**NOTE:** After loading batteries, the blue power indicator will flash to indicate battery voltage. Please refer to the "Power Tips" section of this manual for details.

### WARNING

1. Ensure batteries are inserted with the positive (+) ends pointing to the head. The MH12 will not operate with incorrectly inserted batteries.
2. Avoid direct eye exposure to the beams.

### Momentary illumination

Press the tail cap switch halfway to switch the light on. Simply release to switch the light off.

### ON/OFF

To switch ON: Press the tail cap switch all the way down until a "click" is heard  
 To switch OFF: Press the tail cap switch all the way down again until a "click" is heard

### Brightness Levels

With the MH12 switched on, press the mode switch repeatedly to cycle through brightness levels of ultra-low, low, medium and high.

**Note:** When in high output, the MH12 will reduce output luminance automatically after 3 minutes of use to prevent overheating and extend battery longevity.

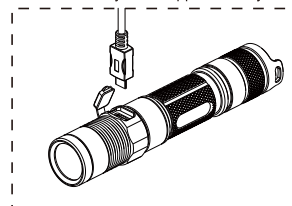
## Special Modes (Strobe/SOS/Location Beacon)

When the light is on, press and hold the mode switch for over one second to enter strobe mode; when in strobe mode, press and hold the mode switch for over one second again to cycle through SOS, location beacon and strobe modes. To exit and revert to the brightness level last used, simply press the mode switch.

**Note:** The MH12 has memory effect to ensure direct access to the previously used brightness level and strobe when it is resumed.

## Charging Function

The MH12 is capable of charging one 18650 Li-ion battery with the included USB charging cable. Press the tail switch, and then connect the USB cable to the MH12's charging port and a power source (USB chargers, PC or other power terminals) as shown in the adjacent image. Fully charging one depleted 18650 battery takes approximately 6 hours.



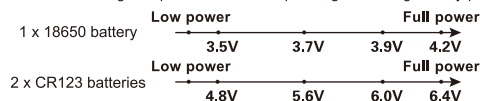
Under normal charging conditions, the blue power indicator light will illuminate steadily to notify users. When charging is complete, the MH12 will terminate the charging process automatically and the blue power indicator goes out.

**Note:** 1. The MH12 charges 1x18650 Li-ion battery only.

2. In order to enter charging mode, switch on the MH12 before charging.

## Power Tips

1. When the light is on, the power indicator will blink once every two seconds when power level drops to 50%; the power indicator will blink quickly when power level is low.
2. When the light is off, press tail cap switch with the mode switch being held to activate the power indicator light to indicate battery voltage (accurate to ±0.1V). For example, when the battery voltage is at a maximum charge of 4.2V, the power indicator will blink 4 times, followed by a one second pause and 2 more blinks before entering the previously used brightness. Different voltages represent the corresponding remaining battery power levels:



## Changing Batteries

Batteries should be recharged or replaced when any of the followings occurs: The power indicators blinks rapidly, 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 Service

All NITECORE® products are warranted for quality. Any defective / malfunctioning NITECORE® product 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 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 a local NITECORE® distributor or send an email to [service@nitecore.com](mailto:service@nitecore.com)

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