

## Features

- Designed for law enforcement, hunting and tactical applications
- Utilizes a CREE XHP50 LED
- Integrated micro-textured reflector offers wide angle lighting
- Maximum beam intensity up to 61,400cd
- Maximum beam distance up to 495 meters
- High efficiency constant current circuit enables maximum output up to 2,150 lumens
- 5 brightness levels and 3 special modes easily accessible via dual side switch interface
- Broad voltage circuit accepts both rechargeable and non-rechargeable Lithium batteries
- Direct access to Ultralow and Turbo levels
- A power indicator built into the side switch indicates remaining battery power (Chinese patent: ZL201220057767.4)
- Intelligent memory function for brightness levels and Strobe mode
- Intelligent Li-ion battery charging circuit with automatic detection capability
- Charging port cover protects the port from dust and water ingress
- Spring-loaded impact absorption mechanism with reverse polarity protection (Chinese patent: 201220677948.7)
- Stainless steel titanium-plated clip
- Toughened ultra-clear mineral glass with anti-reflective coating
- Constructed from aerospace grade aluminum alloy
- HAIII military grade hard-anodized
- Waterproof in accordance with IPX-8 (submersible to two meters)
- Impact resistant to 1.5 meters
- Tail stand capability

## Dimensions

Length: 9.84" (250mm)  
 Head diameter: 2.36" (60mm)  
 Tail diameter: 1" (25.4mm)  
 Weight: 11.32oz (321g) (without battery)

## Accessories

Two Nitecore 18650 rechargeable Li-ion batteries (NL183), clip, tactical ring, lanyard, charger, quality holster, spare tailcap switch cover, and spare O-ring

## Battery Options

	TYPE	Nominal voltage	Compatible
18650 Rechargeable Li-ion battery	18650	3.7V	Yes (Compatible 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 attempt to charge non-rechargeable batteries, CR123 or RCR123 batteries.

## Brightness & Runtime

FL1 STANDARD	TURBO	HIGH	MID	LOW	LOWER
	2150 LUMENS	1230 LUMENS	580 LUMENS	90 LUMENS	1 LUMEN
	1h	2h30min	5h45min	32h15min	850h
	30min	1h45min	4h15min	18h15min	400h
	495m (Beam Distance)				
	61,400cd (Peak Beam Intensity)				
	1.5m (Impact Resistant)				
	IPX-8, 2m (Waterproof AND Submersible)				

**NOTE**  
 Stated data has been measured according to the international flashlight testing standards ANSI/NEMA FL1 using 2 x Nitecore 18650 Li-ion batteries (3.7V, 3400mAh) or 4 x Nitecore CR123 (3V 1700mAh) batteries under laboratory conditions. The data may vary due to individual usage habits and environmental conditions.

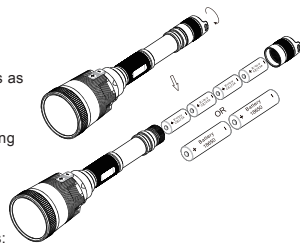
## Operating Instructions

### Battery Installation

Install two 18650 batteries or four CR123 batteries as illustrated.

#### Warning

1. Install batteries with the positive ends (+) pointing towards the flashlight head. Otherwise the flashlight will not work;
2. Do not mix rechargeable batteries with primary batteries;
3. Do not mix batteries of different types or brands;
4. Do not mix batteries of different power levels.



### Momentary Illumination

Press and hold the tailcap switch partway down to momentarily turn the MH41 on. Release the tailcap switch to turn the flashlight off.

### On/Off Operation

To turn the MH41 on, press the tailcap switch all the way down until a "click" is heard;  
 To turn the MH41 off, press the tailcap switch all the way down again until a "click" is heard.

### Brightness Levels

With the MH41 turned on, press the Step-up switch repeatedly to switch from Ultralow, Low, Medium, High, and ends at Turbo. Press the Step-down switch repeatedly to switch to a lower level until Ultralow.

**Note:** The MH41 has memory function. Upon turning-on, it will resume the brightness level or

Strobe mode last used.

### Direct Access to Turbo (2150 lumens)

With the MH41 turned on, press and hold the Step-up switch for one second to enter turbo directly;

With the MH41 turned off, press and hold the Step-up switch , and press the tailcap switch all the way down to enter turbo directly.

### Direct Access to Ultralow (1 lumen)

With the MH41 turned on, press and hold the Step-down switch for one second to enter Ultralow directly;

With the MH41 turned off, press and hold the Step-down switch , and press the tailcap switch all the way down to enter Ultralow directly.

## Special Modes

With the MH41 turned on, press the side switches simultaneously to enter Strobe mode.

In Strobe, press the Step-up switch to switch from strobe, location beacon to SOS (no cycling back). Press the Step-down switch to return to the previous mode.

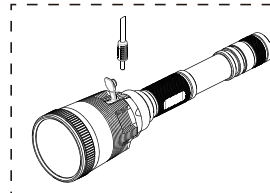
To exit special modes, press both Step-up and Step-down switches again. The MH41 will revert to the brightness level last used.

## ATR Technology

Advanced temperature regulation (ATR) technology allows MH41 to dynamically adjust output performance based on its internal temperature. This prevents damage from overheating and prolongs its working life.

## Charging

The MH41 features intelligent charging capability. Turn the MH41 on, lift the charging port cover, and connect the flashlight charging port to an external power source with the charging cord. The normal charging time for two 18650 batteries is 5 hours.



1. Under normal charging conditions, the blue indicator in the side switches will blink once every 1.5 seconds. When charging is complete, the blue indicator will illuminate steadily.
2. If a problem is detected during the charging process, the MH41 will stop charging and the blue indicator will blink rapidly. This is usually caused by damaged or incorrectly inserted batteries.

**Note:** DO NOT charge batteries of different types or brands together.

## Power Tips

With the MH41 turned off, press all three switches (both side switches and the tailcap switch to activate the blue power indicator that blinks to indicate battery voltage (accurate to ±0.1V). For example, when battery voltage is at 4.2V, the red power indicator will blink 4 times, followed by a 1.5 second pause and another 2 blinks. Different voltages represent the corresponding remaining battery power levels.

	Low Power	Full Power
18650 x 2:	3.5V	3.7V 3.9V 4.2V
CR123 x 4:	2.4V	2.8V 3.0V 3.2V

## Changing / Charging Battery

When batteries are close to depletion, the brightness level will be locked at ultralow to protect batteries. Please change batteries at this time.

## 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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