

# NITECORE®

The All-Round Flashlight Expert

# MH27UV User Manual

## Features

- Quadruple source flashlight optimized for tactical applications, with ultraviolet LED for authentication (such as money, ID card, verification mark) and fluorescence activation
- Utilizes a CREE XP-L HI V3 LED
- Versatile 500mW ultraviolet light at 365nm wavelength
- Integrated "Precision Digital Optics Technology" provides extreme reflector performance
- Maximum beam intensity up to 53,500cd
- Maximum beam distance up to 462 meters
- Uses one 18650 Li-ion battery for maximum runtime up to 708 hours
- High efficiency constant current circuit enables maximum output up to 1,000 lumens
- Equipped with unique bicolored (red and blue) tactical/signaling lights
- 4 brightness levels and 6 special modes are easily accessible via dual side switches
- Direct access to turbo and UV modes
- Features advanced temperature regulation (ATR) technology
- Spring-loaded impact absorption mechanism with reverse polarity protection (Chinese patent: 201220677948.7)
- Intelligent Li-ion battery charging circuit (via Micro-USB charging port)
- A power indicator built into the side switch indicates remaining battery power (accurate to 0.1V)
- Intelligent memory function for brightness levels and special modes (except SOS and location beacon)
- Tactical lanyard enclosed
- Stainless steel retaining ring protects core components from damage
- Toughened ultra-clear mineral glass with anti-reflective coating
- Constructed from aerospace grade aluminum alloy
- HAIII military grade hard-anodized
- Waterproof in accordance with IPX8 (submersible to two meters)
- Impact resistant to 1 meter
- Tail stand capability

## Dimensions

Length: 6.06" (154mm)  
 Head diameter: 1.57" (40mm)  
 Tail diameter: 1" (25.4mm)  
 Weight: 6.0oz (170g) (without battery)

## Accessories

Quality USB charger, holster, clip, tactical ring, lanyard, spare charging port cover, spare O-ring, spare tailcap cover

## 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

Beam Mode	Beam Type	Beam Dia	Beam ID	Beam Length	Beam Area	Beam Intensity	Beam Distance	Beam Color	Beam Power	Beam Voltage	Beam Current	Beam Frequency	Beam Pulse Width	Beam Duty Cycle	Beam Modulation	Beam Frequency	Beam Pulse Width	Beam Duty Cycle	Beam Modulation
18650	18650	250	35	13	3	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
1h	1h	1h	1h	1h	1h	1h	1h	1h	1h	1h	1h	1h	1h	1h	1h	1h	1h	1h	1h
462m	200m	98m	12.6m	9m	1.8m	—	—	—	—	—	—	—	—	—	—	—	—	—	—
53500cd	10000cd	2400cd	40cd	20cd	0.8cd	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1M 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 3.7V 3400mAh 18650 battery under laboratory conditions. The data may vary slightly during real-world use due to battery type, individual usage habits and environmental factors.

## Operating Instructions

### Battery Installation

Insert one 18650 battery or two CR123 batteries as illustrated, with the positive (+) ends pointing to the flashlight head.

**Warning:** DO NOT direct beam towards human or animal eyes.


### Momentary Illumination


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

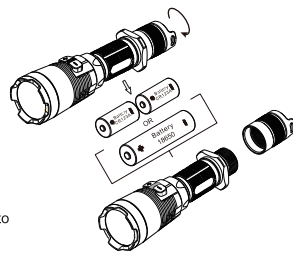
### On/Off Operation

To turn the MH27UV on, press the tailcap switch all the way down until a "click" is heard; To turn the MH27 UV off, press the tailcap switch all the way down again until a "click" is heard;


### Brightness Levels


With the MH27UV turned on, press the Step-up switch  repeatedly to switch from Ultraviolet, Red, Blue, Ultralow, Medium, High, and ends at Turbo.

With the MH27UV turned on, press the Step-down switch  repeatedly to switch between the above mentioned levels and modes in reverse order until UV.





## Direct Access to Turbo

With the MH27UV turned on, press and hold the Step-up switch  for one second to enter turbo mode (1,000 lumens) directly;

With the MH27UV turned off, press and hold the Step-up switch , and press the tailcap switch all the way down to enter turbo mode (1,000 lumens) directly.

## Direct Access to UV


With the MH27UV turned on, press and hold the Step-down switch  for one second to enter UV illumination directly;





With the MH27UV turned off, press and hold the Step-down switch , and press the tailcap switch all the way down to enter UV illumination directly;


### Note:

1. DO NOT direct the UV beam towards skin. Long time UV exposure can do harm to the skin.
2. DO NOT look directly into an emitting UV LED. Long time UV exposure can do harm to the eyes.

## Special Modes (Strobe/Location Beacon/SOS/Police Warning Signals)

With the MH27UV turned on, press the Step-up and Step-down switches  simultaneously to enter strobe mode.

Once in Strobe, press the Step-up switch  once to enter Location Beacon, and once again to enter SOS (no cycling back). Press the Step-down switch  to enter modes in reverse order. When in Strobe, press the Step-down switch  to switch from strobe, blue and red police warning signal, red police warning signal, to blue police warning signal (no cycling back). Press the Step-up switch  to enter modes in reverse order.

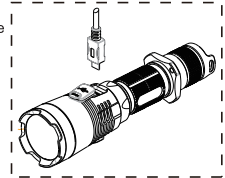
To exit special modes, press the Step-up and Step-down switches  simultaneously again. The MH27UV will resume the brightness level last used.

**Note:** The MH27UV has a memory feature. Upon turning-on, it will resume the brightness level or special mode last used (with the exception of SOS and location beacon).

## Charging

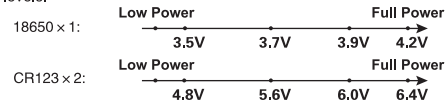
The MH27UV features an intelligent charging function. Turn the MH27UV on, connect the flashlight charging port to a USB power source (USB adaptor, computer, etc) via a USB cord. The normal charging time for an 18650 battery is 6 hours.

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 MH27UV will stop charging and the blue indicator will blink rapidly. This is usually caused by damaged or incorrectly inserted batteries.



## Power Tips

With the flashlight turned off, press all three switches simultaneously to activate battery voltage indication. The blue power indicator will blink to indicate battery voltage (accurate to ±0.1V). For example, when battery voltage is at 4.2V, the blue 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.



**Note:** After voltage reporting, the power indicator will blink once every 3 seconds to unveil the location of the MH27 UV. A full 18650 will keep the torch in this status operational for 1 year.

## ATR Technology

Advanced temperature regulation (ATR) technology allows MH27UV to dynamically adjust output performance based on its internal temperature. This prevents damage from overheating and prolongs its working life.

## 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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