NITECORE®

KEEP INNOVATING

MH12S

Superior Performance 21700 Dual Fuel Compact Flashlight

- USB-C Rechargeable
- Tactical Mode and Daily Mode Available
- Randomly Changing STROBE Mode

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.

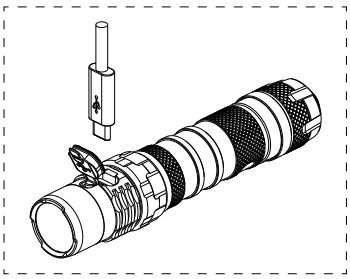
The warranty will be nullified if

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

※ All images, text and statements specified herein this user manual are for reference purpose only. Should any discrepancy occur between this manual and information specified on www.nitecore.com, Sysmax Innovations Co., Ltd. reserves the rights to interpret and amend the content of this document at any time without prior notice.

Charging Function



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Made in China

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Thanks for purchasing NITECORE!

MH301012S20

Features

- Utilizes a Luminus SST-40-W LED with a max output of 1,800 lumens
- Max peak beam intensity of 21,600cd and max throw of 294 meters
- An optical system combined with crystal coating and "Precision Digital Optics Technology" (PDOT)
- Powered by a 21700 high capacity Li-ion battery while compatible with 18650 and CR123 batteries, to provide a runtime up to 1,500 hours
- Tactical Mode and Daily Mode available
- The tactical tail switch and the metal side switch control 5 brightness levels and 3 special modes
- STROBE Mode uses randomly changing frequencies for stronger dizzying effects
- A power indicator beneath the side switch indicates the remaining battery power (Patent No. ZL201220057767.4)
- The power indicator can display the battery voltage (±0.1V)
- Intelligent Li-ion battery charging circuit with a USB-C port
- NITECORE 21700 Li-ion battery included (NL2150 5,000mAh)
- Highly efficient constant current circuit provides a stable output
- Incorporated Advanced Temperature Regulation (ATR) module (Patent No. ZL201510534543.6)
- Electronic reverse polarity protection
- Optical lenses with double-sided scratch resistant coating
- Constructed from aero grade aluminum alloy
- HA III military grade hard-anodized finish
- Waterproof and dustproof rating in accordance with IP68 (2 meters submersible)
- Impact resistant to 1 meter

Specifications

Length:	141mm (5.55")
Head Diameter:	25.4mm (1")
Tube Diameter:	25.4mm (1")
Tail Diameter:	27.2mm (1.07")
Weight:	75.5g (2.66oz)

Accessories

NITECORE 21700 Rechargeable Li-ion Battery (NL2150 5,000mAh), USB-C Charging Cable, Clip, Lanyard, Spare O-ring, 18650/CR123 Battery Magazine, Tactical Holster NTH10

Battery Options

	Type	Nominal Voltage	Compatibility
21700 Rechargeable Li-ion Battery (Discharge Current Over 8A)	21700	3.6V/3.7V	Y (Recommended)
18650 Rechargeable Li-ion Battery (Discharge Current Over 8A)	18650	3.6V/3.7V	Y (Compatible)
Primary Lithium Battery*	CR123	3V	Y (Compatible)
Rechargeable Li-ion Battery*	RCR123	3.6V/3.7V	Y (Compatible)
21700 Rechargeable Li-ion Battery (Discharge Current Below 8A)	21700	3.6V/3.7V	N (Incompatible)
18650 Rechargeable Li-ion Battery (Discharge Current Below 8A)	18650	3.6V/3.7V	N (Incompatible)

Note: DO NOT attempt to use the MH12S to charge CR123/RCR123 batteries.

Technical Data

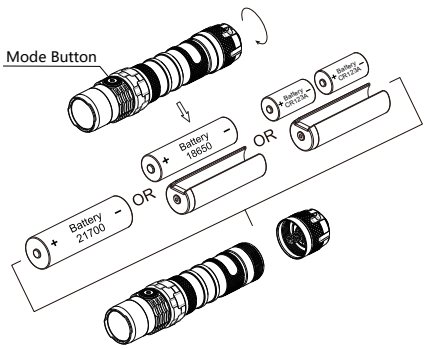
FL1 STANDARD	TURBO	HIGH	MID	LOW	ULTRALOW	STROBE	BEACON	SOS
	1,800 Lumens	1,050 Lumens	300 Lumens	50 Lumens	1 Lumen	1,800 Lumens	1,800 Lumens	1,800 Lumens
	*45min	3h 15min	7h 15min	45h	1,500h	—	—	—
	294m	219m	122m	49m	7m	—	—	—
	21,600cd	12,000cd	3,700cd	600cd	12cd	—	—	—
	1m (Impact Resistance)							
	IP68, 2m (Waterproof and Submersible)							

Note: The stated data is measured in accordance with the international flashlight testing standards ANSI/PLATO FL 1-2019, using 1 x 21700 Li-ion battery (5,000mAh) under laboratory conditions. The data may vary in real world use due to different battery usage or environmental conditions.

* The runtime of TURBO is tested without the temperature regulation.

* TURBO Availability: The TURBO level is only accessible when using a 21700/18650 rechargeable Li-ion battery with a discharge current over 8A. It is inaccessible when using CR123/RCR123 batteries.

Battery Installation



(English) MH12S

Charging Function

The MH12S is equipped with an intelligent charging system. As illustrated, after inserting the battery and tightening the tail cap, use the USB cable to connect an external power supply (e.g. a USB adapter or other USB charging devices) to the charging port to begin the charging process.

- During the charging process, the power indicator will flash slowly to inform the user.
- When the battery is fully charged, the MH12S will cease the charging process and the power indicator will become steadily turned on to inform the user.
- When the light is on, connecting to a power source will automatically turn the light off. The light will return to its previous status when it is disconnected from the power source.
- The charging time for a 21700 Li-ion battery (5,000mAh) is approx. 3 hours 50 minutes. (Charged via the 5V/2A adapter)

Operating Instructions

Battery Installation

Insert the battery(s) as illustrated and screw to tighten the tail cap.

Warnings:

1. Ensure the battery(s) is/are inserted with the positive end towards the head. The product will not work if the battery(s) is/are incorrectly inserted.
2. Please use the battery magazine when using 1 x 18650 / 2 x CR123 batteries to avoid battery rattling and to ensure a stable contact.
3. CAUTION! Possible dangerous radiation! Don't look into the light! May be dangerous for your eyes.
4. When the power level is low, please stop using the product and replace or recharge the battery to prevent damage to the battery.
5. When the product is kept in a backpack or left unused for prolonged time, please remove all batteries to prevent accidental activation or battery leakage.

Tactical Momentary Illumination

Half press and hold the Tail Switch to turn on the light momentarily. Release to turn it off.

On / Off

On: When the light is off, press the Tail Switch until a click sound is heard to turn it on.

Off: When the light is on, press the Tail Switch until a click sound is heard to turn it off.

User Mode Selection

The MH12S provides 2 user modes for different users and situations.

- Daily Mode (Default Setting): In this user mode, there are 5 brightness levels and 3 special modes (STROBE, BEACON and SOS) available. The MH12S will memorize and re-access any of the 5 brightness levels or STROBE Mode (BEACON and SOS excluded) when reactivated, unless it has been switched to the other user mode.
- Tactical Mode: In this user mode, there are only 5 brightness levels and STROBE Mode available. The MH12S will only memorize and re-access the TURBO Level or STROBE Mode when reactivated, unless it has been switched to the other user mode.

To select a desired user mode:

1. When the light is off, click the Tail Switch while holding the Mode Button.
2. Keep holding the Mode Button for approx. 3 seconds, and the main LED of the flashlight will indicate a user mode selected by flashing once for Daily Mode and flashing twice for Tactical Mode.
3. Release the Mode Button, and the flashlight will be automatically turned on after this process.

Brightness Levels

- Daily Mode: When the light is on, short press the Mode Button to cycle through the following brightness levels: ULTRALOW – LOW – MID – HIGH – TURBO.
- Tactical Mode: When the light is on, short press the Mode Button to cycle through the following brightness levels: TURBO – HIGH – MID – LOW – ULTRALOW.

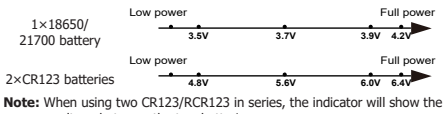
Special Modes (STROBE / BEACON / SOS)

- Daily Mode: When the light is on, keep holding the Mode Button to cycle through the following special modes: STROBE – BEACON – SOS. Release to select the desired special mode.
- Tactical Mode: When the light is on, long press the Mode Button to access the STROBE Mode.
- When one of the special modes is on, short/long press the Mode Button to exit special modes and return to the previous brightness level; or click the Tail Switch to turn off the light.

Power Indication

- When the light is off, click the Tail Switch while holding the Mode Button and then quickly release both buttons to access Power Indication. The power indicator beneath the Mode Button will flash to show the battery voltage (±0.1V). The flashlight will be automatically turned on after this process.

  For example, when the battery voltage is at 4.2V, the power indicator will flash 4 times followed by a 1.5-second pause and 2 more flashes. Different voltages represent the corresponding remaining battery power levels:



Note: When using two CR123/RCR123 in series, the indicator will show the average voltage between the two batteries.

- When the light is on and the power level is close to 50%, the power indicator will flash every 2 seconds to inform the user. When the light is on and the power is close to depleted, the power indicator will flash quickly and continuously to inform the user.

ATR (Advanced Temperature Regulation)

The integrated ATR technology regulates the output of the MH12S according to the working condition and ambient environment to maintain the optimal performance.

Changing Batteries

The batteries should be replaced when the output appears to be dim or the flashlight becomes unresponsive due to low power.

Maintenance

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