

Features

- Utilizes a CREE XM-L2 T6 LED
- Maximum output of up to 960 lumens
- Integrated "Precision Digital Optics Technology" provides extreme reflector performance
- Boasts a peak beam intensity of 12,450 cd and a throw distance of up to 222 meters
- Innovative single button offers access to seven brightness levels and modes.
- High efficiency constant current circuit board provides max runtime of 520 hours.
- Integrated power indicator light displays remaining battery power (patented)
- Power indicator's secondary function displays battery voltage (accurate to 0.1V)
- Instant access to ultra-low output
- 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 IPX-8 (two meters submersible)
- Impact resistant to 1.5 meters
- Tail stand capability

Dimensions

Length: 128mm (5")
 Head diameter: 25.4mm (1")
 Tube diameter: 25.4mm (1")
 Weight: 76g (2.68oz)(without battery)

Accessories

Quality lanyard, 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

| FL 1 STANDARD | HIGH | MID | LOW | LOWER |
|---------------|---|------------|-----------|----------|
| | 960 LUMENS | 210 LUMENS | 50 LUMENS | 1 LUMENS |
| | 1h15min <small>1x 18650 2x CR123</small> | 6h | 28h | 520h |
| | 1h | 5h15min | 20h | 300h |
| | 222m (Beam Distance) | | | |
| | 12450cd (Peak Beam Intensity) | | | |
| | 1.5m (Impact Resistant) | | | |
| | IPX-8, 2m (Waterproof AND Submersible) | | | |

NOTICE

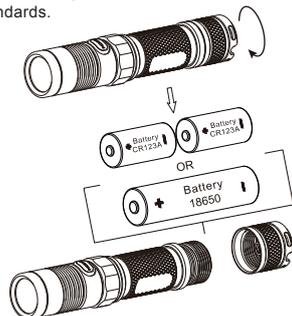
Stated data has been measured according to the international flashlight testing standards ANSI/NEMA FL1 using a quality Nitecore 18650 (3.7V 2600mAh) battery or two Nitecore CR123 (3V 1700mAh) batteries under laboratory conditions. The data may vary due to individual usage habits and environmental conditions.

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

Battery installation

Insert one 18650 battery or two CR123 batteries with the positive poles pointing forward (toward the head).

Note: After loading the batteries, the power indicator light will blink 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 (+) end pointing to the head. The EC20 will not operate with incorrectly inserted batteries.
2. When the EC20 is kept in a backpack or left unused for extended periods of time, Nitecore recommends all batteries are removed to prevent accidental activation of the flashlight or battery leakage.

ON/OFF

Press the button until a click is heard to switch the light on
 Press the button once again until a click is heard to switch the light off

Brightness Levels

With the EC20 switched on, press and hold the button for more than 0.5 second to cycle through brightness levels of ultra-low, low, medium and turbo. To select a desired brightness level, simply release the button when that level is being displayed. This mode provides an intelligent memory function to ensure direct access to the previously used brightness level when the EC20 is reactivated.

Note: when in turbo mode, the EC20 will reduce output luminance automatically after 5 minutes of use to prevent overheating and extend battery longevity

Instant Ultra Low

With the EC20 switched off, press and hold the button for more than one second to access an ultra-low output mode of 1 lumen.

Special Strobe / SOS mode and Location Beacon

Press the button twice in quick succession in any state to enter Strobe mode. When in strobe mode, press the switch all the way down and hold for more than one second to cycle through Strobe, SOS and Location Beacon modes. To exit any of these special modes, simply press the button again. The EC20 does not have a memory function for special modes.

Power Tips

1. When the light is on, the power indicator will blink once every two seconds when power levels reach 50%.
2. When the light is on, the power indicator will blink quickly when power levels are low.
3. Each time batteries are inserted, the power indicator light will blink in varying patterns to indicate battery voltage (accurate to ±0.1V). For example, when battery voltage is at a maximum charge of 4.2V, the power indicator will blink 4 times in quick succession, followed by a one second pause, and then two more blinks, thus indicating the battery voltage detected is 4.2V. Different voltages represent the corresponding remaining battery power levels:

| | Low power | | | Full power |
|---------------------|-----------|------|------|------------|
| 1 x 18650 battery | 3.5V | 3.7V | 3.9V | 4.2V |
| 2 x CR123 batteries | 4.8V | 5.6V | 6.0V | 6.4V |

Replacing Batteries

Batteries should be 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. DOA / defective products can be exchanged for replacement through a local distributor/dealer within 15 days of purchase. After 15 days, all defective / malfunctioning NITECORE® products will 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 your national NITECORE® distributor or send an email to service@nitecore.com

The Nitecore official website shall prevail in case of any product data changes.

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