



NITECORE HC33 Headlamp User Manual

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NITECORE

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NITECORE HC33 Headlamp



Technical parameters

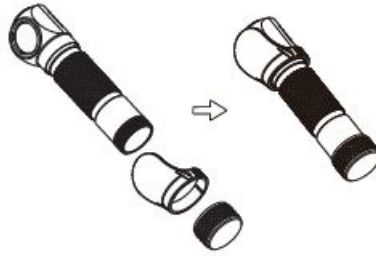
FL1 STANDARD	Turbo	High	Mid	Low	Ultralow	Strobe	SOS	Beacon
	1800 lumens	780 lumens	240 lumens	70 lumens	1 lumen	1800 lumens	1800 lumens	1800 lumens
	*30min	*1h30min	5h15min	15h	300h	—	—	—
	187m	117m	63m	35m	4m	—	—	—
	8750cd	3400cd	1000cd	300cd	4.5cd	—	—	—
	1m (Impact Resistant)							
	IP68, 2m (waterproof AND submersible)							

NOTE: The above data has been measured in accordance with the international flashlight testing standards ANSI/NEMA FL1, using 1xIMR 18650 battery (3100mAh) under laboratory conditions. The data may vary in real-world use due to different battery use or environmental conditions.

The runtime for Turbo or High mode is the testing result before starting temperature regulation.

The Turbo 1800 lumens requires the use of rechargeable IMR18650 or 18650 Li-ion batteries with output current higher than 8A. The Turbo is not accessible with CR123A or RCR123A batteries.

Installation of the Diffuser



FEATURES

- A versatile high performance L-shaped headlamp
- Utilizes a CREE XHP35 HD LED to emit maximum output of 1800 lumens
- Integrated “Precision Digital Optics Technology” provides extreme reflector performance
- Boasts a peak beam intensity of 8,750cd and a throw distance of up to 187 meters
- A single button offers access to 5 brightness levels and 3 special modes.
- High efficiency constant current circuit board provides maximum runtime of 330 hours.
- The light indicates remaining battery power by flashing (to the nearest $\pm 0.1V$)
- Flood lighting system produces a wide 100° beam angle
- Advanced temperature regulation (ATR) technology
- Comfortable headband constructed from quality elastic nylon
- Reverse polarity protection prevents damage from incorrectly inserted batteries
- Toughened ultra-clear mineral glass with anti-reflective coating
- Constructed from aero grade aluminum alloy with HAIII military grade hard-anodized finish
- IP68 waterproof (two meters submersible)
- Impact resistant to 1 meter
- Magnetic base and tail stand capability

Dimensions

- **Length:** 4.15" 105.3mm
- **Head diameter:** 1"×0.95" 25.5mm×24.2mm
- **Tail diameter:** 0.94" 23.8mm
- **Weight:** 1.81oz 51.2g (battery excluded)

Accessories

Spare O ring, button cover, clip, headband, holder, diffuser

Battery options

	TYPE	Nominal voltage	Compatible
NITECORE NL1835HP 3500mAh	18650	3.6V	Y (Recommended)
Rechargeable IMR18650 Li-ion Battery	IMR18650	3.6V/3.7V	Y (Recommended)
18650 Li-ion Battery (output $\geq 8A$)	18650	3.6V/3.7V	Y
Primary Lithium battery	CR123	3V	Y
Rechargeable Li-ion battery	RCR123	3.6V/3.7V	Y
18650 Li-ion Battery (output $< 8A$)	18650	3.6V/3.7V	N

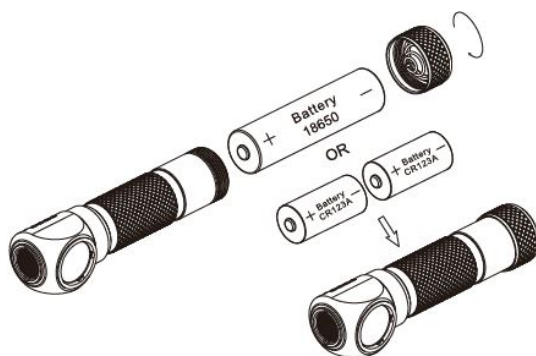
Operating Instructions

Battery Installation

As illustrated, insert batteries with the positive (+) end facing towards the head.

Warning

1. Ensure batteries are inserted with the positive (+) end pointing to the head. The HC33 will not operate with incorrectly inserted batteries.
2. **CAUTION!** Possible dangerous radiation! Don't look into the light! Maybe dangerous for your eyes.
3. When the power level of IMR18650 Li-ion battery is low, please stop using and recharge the battery.
4. When the HC33 is kept in a backpack, please loosen the tailcap to prevent accidental activation of the flashlight; When the HC33 is left unused for extended periods of time, please remove all batteries to prevent battery leakage.
5. Do not submerge the product in water or any liquid when it has generated sufficient heat, doing so will cause pressure inequalities and significantly increase risk of water damages.
6. The product contains strong magnetic components. DO NOT put it close to objects that tend to suffer from magnetic interference (e.g. bank cards, watches and medical equipment).



ON/OFF

- **Turn on:** When the light is off, press the switch for 0.6 seconds to turn on the light.
- **Turn off:** When the light is on, press the switch for 0.6 seconds to turn off the light
- **Instant Ultralow:** With the HC33 is switched off, tap the switch to enter ultralow mode.
- **Instant Turbo:** With the HC33 is switched off, press the switch for about 1.5 seconds to enter turbo mode.

Adjusting Brightness Levels

With the HC33 is switched on, press the switch repeatedly to cycle through brightness levels of Ultralow-Low-Middle-High-Turbo. (Brightness levels can be memorized)

Special modes (Strobe/SOS/Beacon)

When the light is off, quickly tap the headlamp switch twice to enter Strobe. After Strobe is turned on, tap the switch repeatedly to cycle through SOS-Beacon-Strobe. Turn off the light to exit. (Special modes can not be memorized)

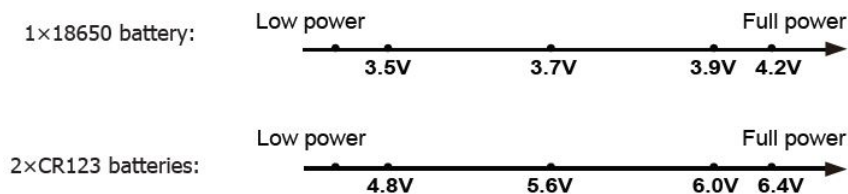
ATR (Advanced Temperature Regulation)

With Advanced Temperature Regulation module, the HC33 regulates its output and adapts to the ambient environment, maintaining optimal performance.

Power Tips

When power is off, every time the battery is installed, tighten the head and tail cap, the light will report battery voltage (to the nearest $\pm 0.1V$) For example, when the battery voltage is at a maximum charge of 4.2V, the power indicator will blink 4 times, followed by 1.5 seconds pause and 2 more blinks before entering the standby status.

Different voltages represent the corresponding remaining battery power levels:



Note:

1. when using two CR123/RCR123 in series, the flashlight only reports the average voltage of the two batteries.
2. If it can not report the voltage normally, please loosen the tail cap first, then press the switch for 1 second to ensure the HC33 is power off thoroughly and then tighten the tail cap.

Changing Batteries

Recharge the batteries when the output appears to be dim or the brightness levels can not be selected normally.

Maintenance

Every 6 months, wipe the threads of the battery case with a clean cloth followed by applying 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 the 15 days of purchase. After 15 days, all defective/malfunctioning NITECORE® products will be repaired free of charge for a period of 60 months from the date of purchase.

After 60 months, 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(i.e. reverse polarity installation).
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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Documents / Resources

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References

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