NITECORE UT32 Ultra Compact Dual Output Headlamp User Manual

NITECORE®

KEEP INNOVATING
UT32 Ultra Compact
Dual Output Headlamp
Coaxial Dual Reflector Design
TrueVision Cool White Flood
Penetrating Warm White Throw

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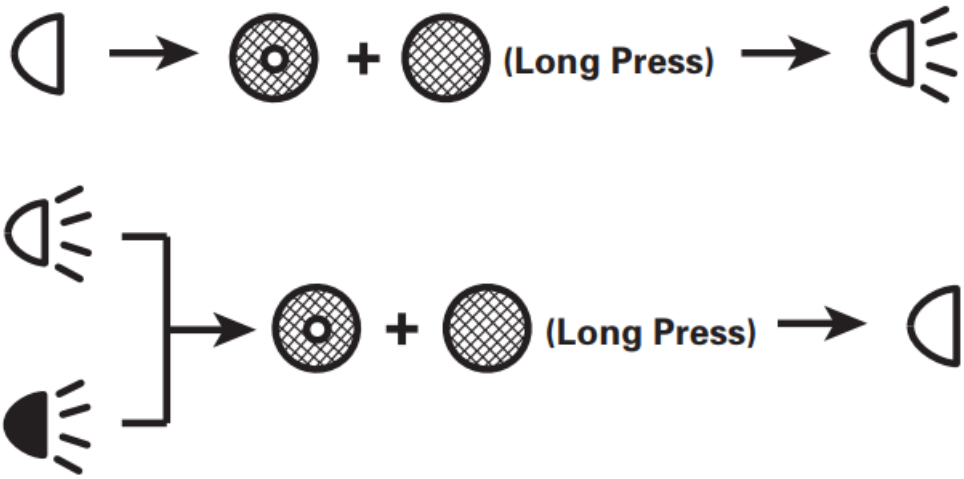
On/Off



OFF

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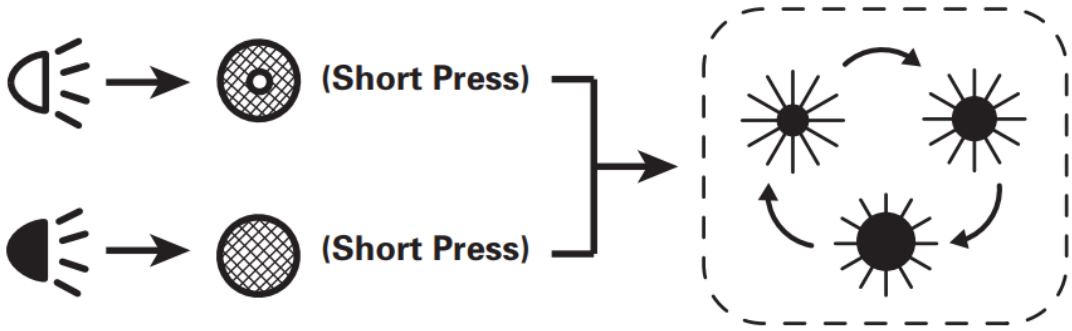

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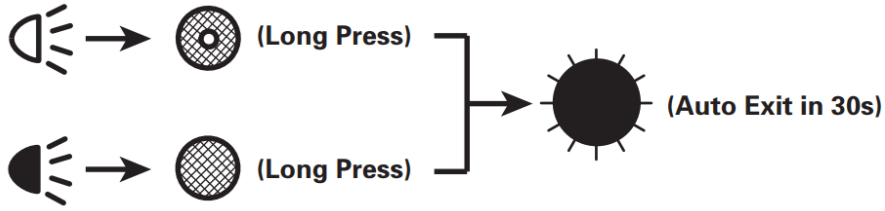

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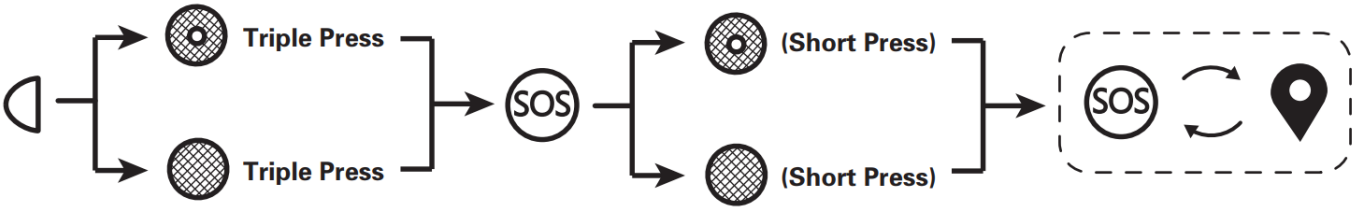


Features

- Dual output headlamp specially designed for the unpredictable weather and harsh outdoor environment in trail running
- Primary Cool White Beam uses a CREE XP-L2 V6 LED (5700K) for a max output of 1,100 lumens and a max throw of 80 meters, combined with an OP reflector for 100° wide range flood illumination with uniform and soft light
- Auxiliary Warm White Beam uses a CREE XP-L V6 LED (3000K) for a max output of 920 lumens and a max throw of 117 meters, combined with an optical system with crystal coating and “Precision Digital Optics Technology” (PDOT) for better penetrating ability in the rain, snow or fog
- A high-efficiency constant circuit provides a stable output of 18 hours
- 4 brightness levels and 2 special modes available for both beams
- Both LEDs can indicate the battery power by displaying the battery voltage (±0.1V)
- Incorporated Advanced Temperature Regulation (ATR) module (Patent No. 6)
- Specially designed lightweight and breathable headband included
- Optical lenses with double-sided scratch-resistant coating
- Constructed from aero grade aluminum alloy
- HA III military grade hard-anodized finish
- Rating in accordance with IP68 (2 meters submersible)

- Impact-resistant to 1 meter

Specifications

Length: Head Dimensions: Tail Diameter: Weight:	95.9mm (3.78″) 27.6mmx26.8mm (1.09″x1.06″) 23.8mm (0.94″) 82.59 (2.91oz) (Bracket and Headband Included, Battery Not Included) **48g (1.69oz) (Bracket, Headband and Battery Not included)**

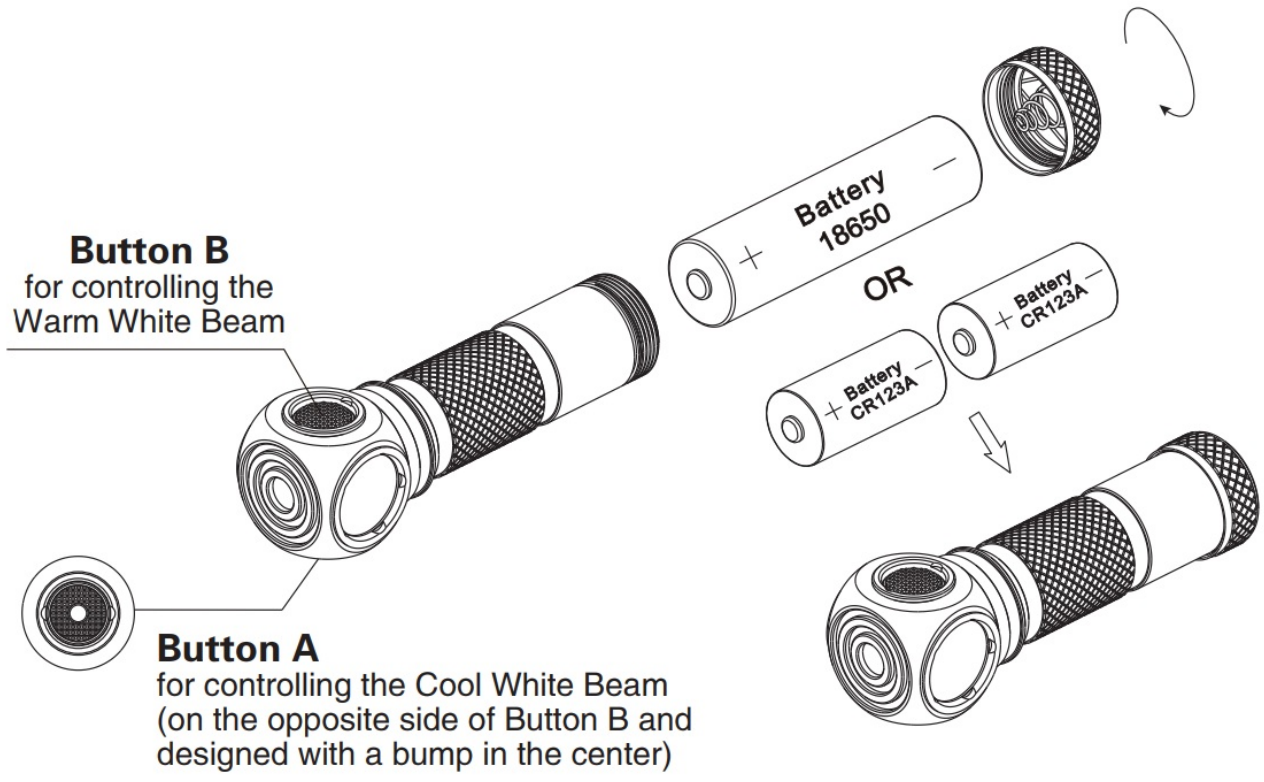
Accessories

Spare 0-ring, Spare Switch Covers, Clip, Headband, Bracket

Battery Options

	Type	Nominal Voltage	Compatibility
18650 Rechargeable Li-ion Battery (Button Topped)	18650	3.6V/3.7V	Y (Compatible)
18650 Rechargeable Li-ion Battery (Flat Topped)	18650	–	N (Incompatible)
Primary Lithium Battery	CR123	3V	Y (Compatible)
Rechargeable Li-ion Battery	RCR123	3.6V/3.7V	Y (Compatible)

Battery Installation



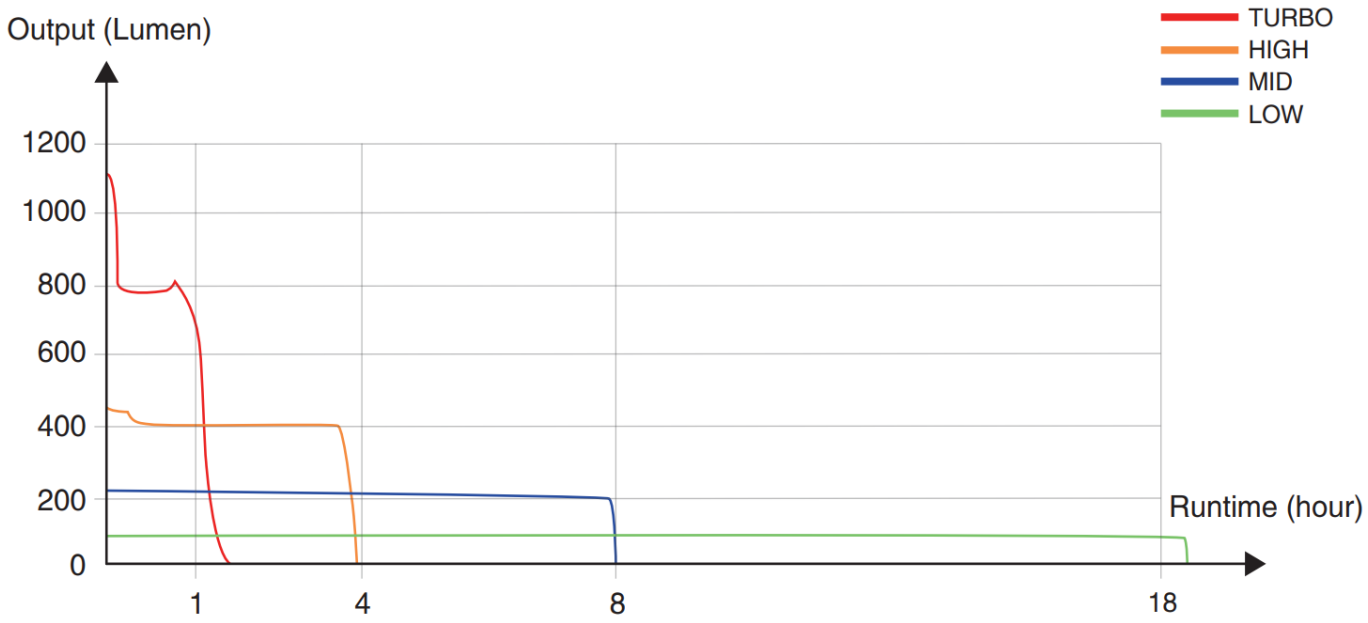
Technical Data

Primary Cool White Beam:

FL1 STANDARD	TURBO	HIGH	MID	LOW	BEACON	SOS
	1,100 Lumens	410 Lumens	200 Lumens	70 Lumens	1,100 Lumens	1,100 Lumens
	*lh 30min	3h 45min	8h	18h	—	—
	80m	49m	33m	23m	—	—
	1,600cd	600cd	270cd	130cd	—	—
	Im (Impact Resistance)					
	IP68, 2m (Waterproof and Submersible)					

Note: The stated data is measured in accordance with the international flashlight testing standards ANSI/NEMA FL1, using 1 x 18650 Li-ion battery (3,500mAh) under laboratory conditions. The data may vary in real-world use due to different battery usage or environmental conditions. * The runtime for TURBO mode is tested with fan cooling, as a simulation of the trail running environment.

Runtime Graph of the Cool White Beam

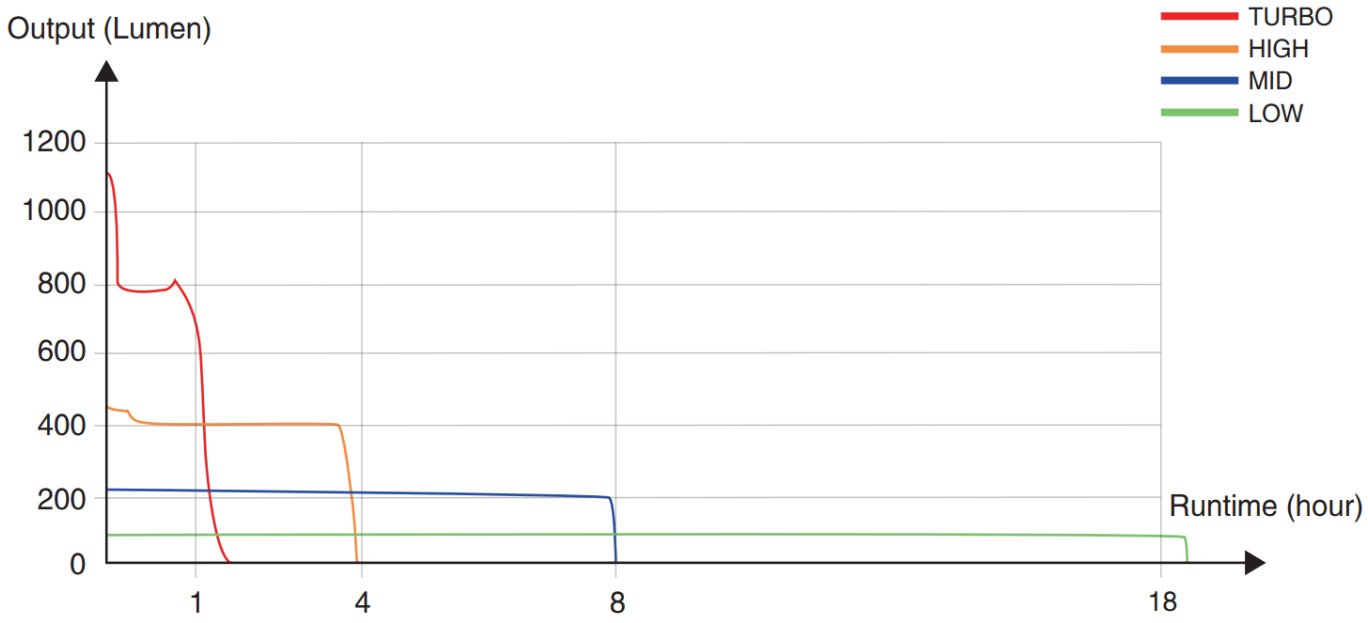


Auxiliary Warm White Beam:

FL1 STANDARD	TURBO	HIGH	MID	LOW	BEACON	SOS
	920 Lumens	370 Lumens	170 Lumens	60 Lumens	920 Lumens	920 Lumens
	*lh 30min	3h 45min	8h	18h	—	—
	117m	75m	46m	31m	—	—
	3,460cd	530		250cd	—	—
	Im (Impact Resistance)					
	IP68, 2m (Waterproof and Submersible)					

Note: The stated data is measured in accordance with the international flashlight testing standards ANSI/NEMA FL1, using 1 x 18650 Li-ion battery (3,500mAh) under laboratory conditions. The data may vary in real-world use due to different battery usage or environmental conditions. * The runtime for TURBO mode is tested with fan cooling, as a simulation of the trail running environment.

Runtime Graph of the Warm White Beam



Operating Instructions

Battery Installation

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

Note: After the battery insertion, the LEDs will flash to indicate the battery voltage. Please refer to the “Power Indication” section of this manual for more details.

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. CAUTION! Possible dangerous radiation! Don't look into the light! Maybe dangerous for your eyes.
3. When the product is kept in a backpack or left unused for a prolonged time, please remove all batteries to prevent accidental activation or battery leakage.

On/Off

The UT32 has dual power buttons for independently controlling the two beams as illustrated. (Button A is designed with a bump in the center.)
On: When the light is off, long press both buttons to turn it on and access the LOW level of the Cool White Beam.
Off: When the light is on, long press both buttons to turn it off.

Beam Switching

When any brightness level or special mode of the Cool White Beam is on, short press Button B to switch to the corresponding brightness level or special mode of the Warm White Beam.
When any brightness level or special mode of the Warm White Beam is on, short press Button A to switch to the corresponding brightness level or special mode of the Cool White Beam.
(Note: Both beams cannot be turned on at the same time.)
Brightness Levels
Cool White Beam: When the Cool White Beam is on, short press Button A to cycle through the following brightness levels of the Cool White Beam: LOW — MID — HIGH.
Warm White Beam: When the Warm White Beam is on, short press Button B to cycle through the following brightness levels of the Warm White Beam: LOW — MID — HIGH.

TURBO Activation

Search Mode: The headlamp will automatically return to the previous brightness level after accessing TURBO for 30 seconds when using this access, suitable for signpost searching.

- When the Cool White Beam is on, long press Button A to access TURBO of the Cool White Beam.
- When the Warm White Beam is on, long press Button B to access TURBO of the Warm White Beam. **Constant-on Mode:** When the light is off, long press both buttons to access TURBO of the Cool White Beam after accessing LOW of the Cool White Beam. You will need to exit TURBO manually when using this access.

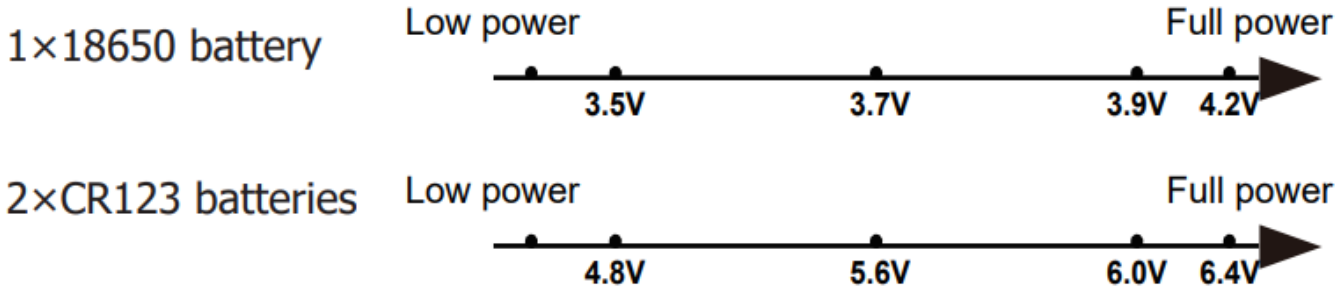
Special Modes (SOS / BEACON)

Cool White Beam: When the light is off, triple press Button A to access the SOS Mode of the Cool White Beam. When the SOS Mode is on, short press Button A to switch between the BEACON and SOS modes. Long press Button A or both buttons to exit special modes and turn off the light.
Warm White Beam: When the light is off, triple press Button B to access the SOS Mode of the Warm White Beam. When the SOS Mode is on, short press Button B to switch between the BEACON and SOS modes. Long press Button B or both buttons to exit special modes and turn off the light.

Power Indication

When the battery is inserted and the tail cap is tightened, the LEDs will flash to show the battery voltage (±0.1V).

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. The headlamp will be turned off after this process. Different voltages represent the corresponding remaining battery power levels:



Note:

1. When using two CR123/RCR123 in series, the LEDs will show the average voltage between the two
2. If it fails to display the voltage correctly, please press and hold both buttons for over 1 second with the tail cap loosened to ensure the headlamp is totally power off, and then tighten the tail cap

ATR (Advanced Temperature Regulation)
The integrated ATR technology regulates the output of the UT32 according to the working condition and ambient environment to maintain optimal performance.

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

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

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

- the product(s) is/are broken down, reconstructed, and/or modified by unauthorized parties;
- the product(s) is/are damaged due to improper use; (e.g. reversed polarity installation)
- 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**

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	NITECORE UT32 Ultra Compact Dual Output Headlamp [pdf] Instruction Manual UT32 Ultra Compact Dual Output Headlamp, UT32, Ultra Compact Dual Output Headlamp, Compact Dual Output Headlamp, Dual Output Headlamp, Output Headlamp, Headlamp

References

- NITECORE
- NITECORE