

# QUICK GUIDE

## NITECORE® KEEP INNOVATING

### NU53 User Manual



- **IMPORTANT!** Please read this manual carefully before using the product and follow the instructions.
- If manual or contains important safety information and operating instructions. Please keep it for future reference.
- In case of updates, please refer to the latest version available on the official website.

#### Warning

1. This product is intended for use by adults aged 18 and over. Please keep this product out of the reach of children.
2. CAUTION! Possible dangerous radiation! DO NOT stare directly into the light beam or shine the light directly into the eyes of anyone!
3. The product will generate massive heat during prolonged operation. Please exercise caution during use. It is recommended not to use high brightness levels for extended periods to prevent burns and product damage.
4. DO NOT cover the product or put it close to other objects, as this may cause damage to the product or accidents due to high temperatures.
5. DO NOT use the product to illuminate flammable or explosive materials, as the high heat may lead to combustion or explosion.
6. Please use the product in a standard manner to avoid accidents in the event of a fall.
7. DO NOT submerge the product into any liquid when it is hot. Doing so may cause irreparable damage to the light due to the difference of air pressure inside and outside of the tube.
8. When the product is placed in an enclosed or flammable environment such as a pocket or backpack, or when it is left unused for an extended period, please turn off the product to deactivate the Lockout Mode to avoid accidental activation and dangers caused by excessive heat.
9. DO NOT expose the product to temperatures above 60°C (140°F) for prolonged time, as this poses a risk of battery explosion or combustion.
10. Please recharge the product with the original charging cable to avoid shortening the lifespan of the battery.
11. Please recharge the product every 6 months when left unused for a prolonged time.
12. DO NOT disassemble or modify this product as doing so will cause damage to it and render the product warranty invalid. Please refer to the warranty section in the manual for complete warranty information.

#### Battery Safety

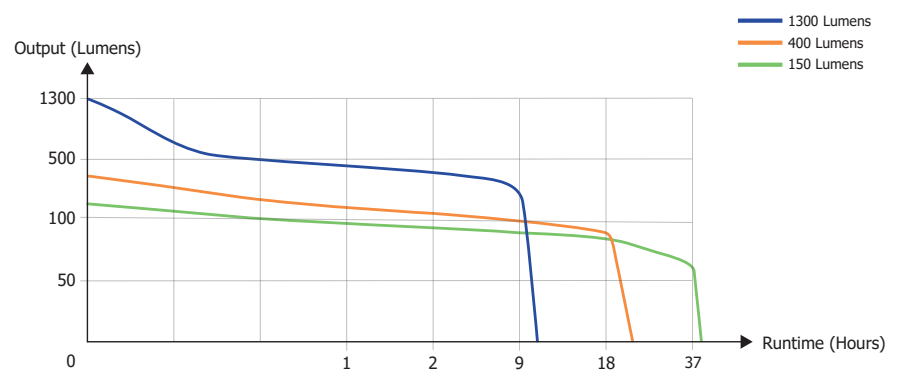
Improper use of devices with built-in Li-ion batteries may result in severe battery damage or safety hazards such as combustion or explosion. DO NOT use the device if it is damaged. DO NOT disassemble, puncture, cut, crush, or incinerate the device. If any leakage or abnormal odor is noticed, stop using the device immediately. Dispose of the device/batteries in accordance with applicable local laws and regulations.

#### Technical Data

	Primary White Light				Auxiliary White Light			Auxiliary Red Light				Primary White Light		
	TURBO	HIGH	MID	LOW	FLOOD LOW	ULTRALOW	HIGH	LOW	SLOW FLASHING	SOS	BEACON	HIGH	LOW	
Brightness	1,800 Lumens	1,300 Lumens	400 Lumens	150 Lumens	25 Lumens	8 Lumens	10 Lumens	5 Lumens	10 Lumens	1,300 Lumens	1,300 Lumens			
Runtime	—	9h	18h	37h	66h	153h	82h	132h	—	—	—			
Beam Distance	175m	142m	77m	48m	8m	4m	5m	4m	—	—	—			
Peak Beam Intensity	6,841cd	5,034cd	1,491cd	568cd	18cd	5cd	7cd	4cd	—	—	—			
Impact Resistance	2m													
IP Rating	IP68, 2m (Waterproof and Submersible)													

Note: The stated data is measured using the built-in Li-ion battery (3.6V 5,500mAh) under laboratory conditions. The data may vary in real world use due to different environmental conditions.

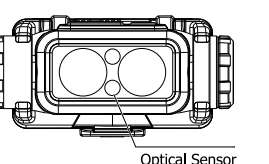
#### Runtime Figure for Primary White Light



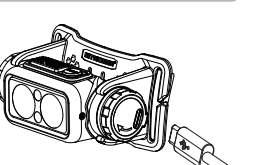
#### Features

- Max output of 1,800 Lumens
- Utilizes ultra high efficiency UHE LED
- Equipped with a primary white light (Color Temperature: 6,000K), a high CRI auxiliary white light (CRI>90, Color Temperature: 4,500K), and an auxiliary red light
- Utilizes a unibody optical lens system with various facets for reflecting a uniform and soft light
- Max throw of 175 meters
- Built-in 5,500mAh Li-ion battery
- Intelligent Li-ion battery charging circuit with a USB-C charging port
- Designed with two buttons different in shape and touch, offering easy one-handed operation
- 3 light sources, 8 brightness levels, and 3 special modes available
- Designed with 4 power indicators to indicate the remaining battery power to allow the battery to be recharged in accordance with IP68 (2 meters submersible)
- Made from durable PC material with an aluminum alloy front housing
- Includes a removable bracket for easy carrying
- Impact resistant to 2 meters
- Waterproof and dustproof rating in accordance with IP68 (2 meters submersible)

#### Sensor Protection Function



#### Charging Function



#### Power Indication

Status of Indicators	Power Level
4 Constant-on	75% – 100%
3 Constant-on	50% – 75%
2 Constant-on	25% – 50%
1 Constant-on	0% – 25% (Please charge the product as soon as possible)

#### 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 24 months from the date of purchase. Beyond 24 months, a limited warranty applies, covering the cost of labor and materials, but does not cover 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.

#### Specifications

Dimensions: 83.4mm x 48.5mm x 43.9mm (3.28" x 1.91" x 1.73") (Bracket Included)  
Weight: 151g (5.33 oz)  
Included: Power Button and Headband (Included) (117g (4.13 oz))  
(Bracket and Headband Not Included)

#### Accessories

USB-C to USB-C Charging Cable, Bracket, Headband, Diffusing Stuff Sack

#### (English)

#### Charging Function

The NU53 is equipped with an intelligent charging system. Please charge the battery before first use.

#### Power Connection:

The NU53 automatically switches between Standard and QC Fast Charging Modes based on the connected power source. As illustrated, rotate the USB protective cover clockwise to open it, then connect one end of the USB charging cable to the charging port and the other end to a power source (e.g. a USB adapter or other USB charging devices) to begin the charging process. The charging time in QC Mode is approx. 2h 40min; the charging time in Standard Mode is approx. 3h 10min. (Charged via the SV/2A Adapter). When fully charged, the standby time is approx. 12 months.

#### Charging Indication:

During the charging process, the power indicators will transition gradually from flashing to a steady light, one by one, displaying the battery level. When the battery is fully charged, the 4 power indicators will become steadily turned on.

#### Power Button / MODE Button

- The Power Button is used for turning on / off the light and adjusting brightness levels.
- The MODE Button is designed for switching light sources.

#### On / Off

- When the light is off, long press the Power Button for 1 second to access LOW.
- When the light is on, long press the Power Button or MODE Button for 1 second to turn it off.

#### Primary White Light

- When the light is off, long press the Power Button for 1 second to access LOW.
- When the primary white light is on, short press the Power Button to cycle through the following brightness levels: LOW – MID – HIGH.
- When the white light is on, double press the Power Button to access TURBO. Short press the Power Button again to return to the previous status, or it will automatically return to the previous status if there is no operation in 23 seconds.

#### Note:

The TURBO Level will step down to prevent overheating and prolong battery life when it runs for a prolonged period.

#### Auxiliary White Light

- When the light is on, double press the Power Button to access ULTRALOW.
- When the auxiliary white light is on, short press the Power Button to switch between ULTRALOW and FLOOD LOW.

#### Auxiliary Red Light

- When the light is off, long press the MODE Button for 1 second to turn on the auxiliary red light.
- When the auxiliary red light is on, short press the Power Button to cycle through the following sequence: Red LOW, Red HIGH, and SLOW FLASHING.

#### Light Sources Switching

- When the light is on, short press the MODE Button to switch through the following light sources: Primary White Light – Auxiliary White Light – Auxiliary Red Light.

#### Special Modes (SOS / BEACON)

- When the headlamp is in any status, double press the MODE Button to access SOS.
- When either special mode is on, short press the Power Button to switch between SOS and BEACON. Double press the MODE Button again to return to the previous status.

#### Lockout / Unlock

When the headlamp is off, long press both buttons for 2 seconds until the primary white light flashes 3 times to indicate access to the Lockout Mode. In Lockout Mode, the brightness levels or special modes are unavailable, and the primary white light will flash once to indicate this status when pressing either button for 2 seconds. To exit Lockout Mode, long press both buttons for 2 seconds again until ULTRALOW is activated to indicate the unlock status.

Note: The product will be automatically unlocked when charging in the Lockout Mode.

#### Power Indication

When the light is off, short press the Mode Button, the corresponding power indicators will turn on in turn and go off after 2 seconds.

Note: The product should be recharged when the output appears to be dim or the headlamp becomes unresponsive due to low power.

#### Connecting to an External Power Supply

The NU53 can be directly powered by an external power supply. When connected to an external power supply, the headlamp will automatically start charging and prioritize using the external power supply.

• **Connect:** When the headlamp is on, connect one end of the USB cable to the headlamp and the other end to a power supply. The headlamp will flash once to inform the user.

• **Disconnect:** When the headlamp is on, disconnect the USB cable. The headlamp will flash twice (3 times each) and stop charging. At this point, the headlamp will automatically switch to being powered by its built-in battery.

#### Sensor Protection Function

When the headlamp is in MID, HIGH, or TURBO, if the built-in optical sensor detects an obstruction ahead, the brightness will automatically decrease to LOW (150 lumens) to prevent overheating and prolong the lifespan of the headlamp. The sensitivity of the sensor may differ due to variations in the color and material of obstructions. Once the obstruction is removed, the headlamp will return to the previous brightness level.

**Off:** The protective sensor is automatically enabled when the headlamp is powered on. Once activated, you can temporarily disable the sensor by briefly pressing either button. To reactivate the sensor, turn the headlamp off and then on again.

#### Note:

1. This feature is only available when the headlamp is in MID, HIGH, or TURBO.
2. It is important to keep the front lens clean to ensure that the built-in sensor functions properly to achieve its optimal performance.

#### Adaptive Mode

The NU53 is designed with an intelligent adaptive mode. When the light is on, the headlamp will automatically adjust its brightness based on ambient light conditions to provide optimal visibility and eye comfort.

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