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Nitecore NU27

Nitecore NU27 Headlamp User Manual

Model: NU27 | Brand: Nitecore

INTRODUCTION

The Nitecore NU27 is a lightweight, USB-C rechargeable headlamp designed for various outdoor activities such as running, camping, and hiking. It features multiple light sources including warm, neutral, and cool white LEDs, as well as an auxiliary red light, providing versatile illumination options for different environments and tasks. This manual provides detailed instructions for the proper use, maintenance, and care of your NU27 headlamp.

WHAT'S IN THE BOX

- Nitecore NU27 Headlamp
- Headband
- USB-C to USB-C Charging Cable
- Clip
- Diffusing Stuff Sack

ADDITIONAL ACCESSORY



Nitecore Sticker

Image: The Nitecore NU27 headlamp, its yellow headband, a USB-C charging cable, a clip, and a white diffusing stuff sack, laid out on a blue mat.

PRODUCT OVERVIEW AND FEATURES

Lightweight and Compact Design

The NU27 headlamp is engineered for minimal weight and a compact form factor, ensuring comfort during extended use. Weighing approximately 1.98 ounces (56g) with the headband, it is an ideal companion for activities where every gram counts.



Image: The Nitecore NU27 headlamp, with its yellow headband, is shown floating above clouds, illustrating its ultra-compact and lightweight design. The text "Ultra Compact and Lightweight" and "56g (1.98 oz)" are displayed.

Multiple Color Temperatures (MCT UHE LEDs)

The NU27 features MCT UHE LEDs, allowing users to switch between three distinct white light color temperatures: warm white (3000K), neutral white (4500K), and cool white (6500K). This versatility ensures optimal visibility and reduced eye strain in varying conditions.

- **Warm White (3000K):** Offers excellent penetrating ability in fog and rain, reducing glare and reflection in snow.
- **Neutral White (4500K):** Provides soft, clear, and natural-looking light suitable for various general activities.
- **Cool White (6500K):** Resembles noonday sunlight, enhancing contrast and long-distance visibility, ideal for staying alert during long hikes or runs.



Image: Three panels illustrating the different color temperatures of the NU27. The first shows warm light (3000K) cutting through fog, the second shows neutral white (4500K) for general use, and the third shows cool white (6500K) for enhanced visibility during running.

Auxiliary Red Light

The NU27 includes an auxiliary red light with three outputs (low, high, slow flashing). Red light is beneficial for preserving night vision, repelling insects, and for signaling purposes (SOS, beacon).

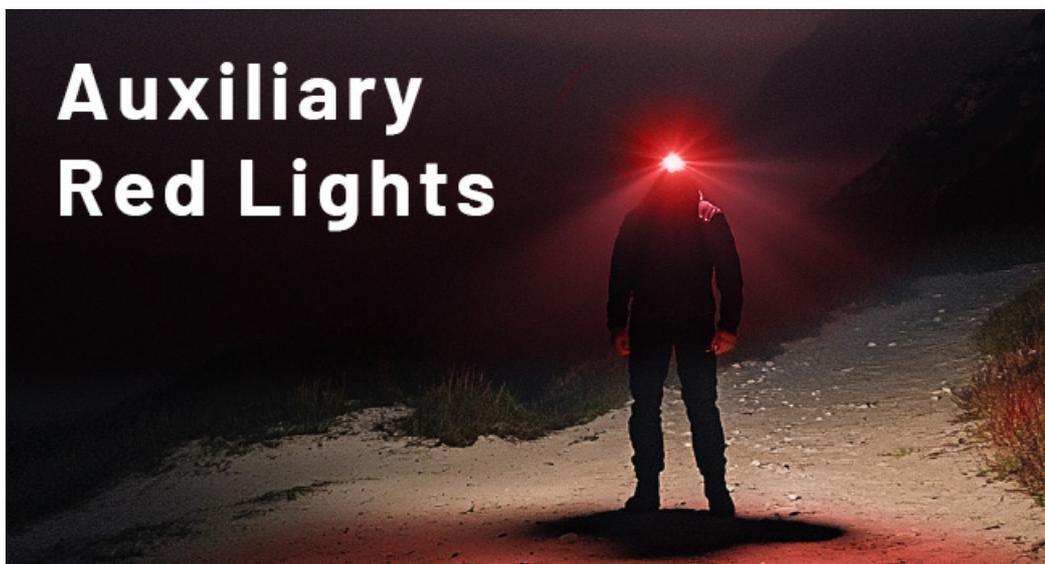


Image: A person wearing the NU27 headlamp with its auxiliary red light activated, standing in a dark outdoor setting. The text "Auxiliary Red Lights" is displayed.

USB-C Rechargeable

The headlamp features a built-in USB-C charging port for convenient recharging. A battery status indicator provides real-time power levels, ensuring you know when it's time to recharge. The NU27 can run for up to 57 hours on ultralow mode and fully charges in just over 1 hour.

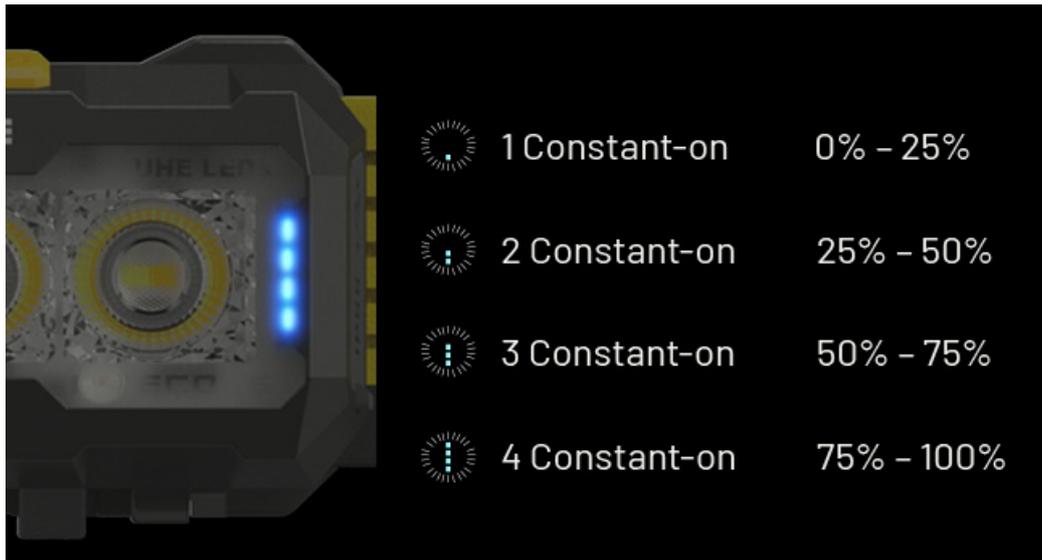


Image: A close-up view of the Nitecore NU27 headlamp showing its four blue LED power indicators on the side, with text explaining the battery status percentages.

Durable Construction

Crafted from durable PC material, the NU27 is rated IP66 waterproof and impact resistant up to 1 meter, making it suitable for challenging outdoor conditions.

SETUP

Attaching the Headband

The elastic headband is pre-attached to the headlamp. Adjust the length of the headband to ensure a comfortable and secure fit around your head. The headband features a silicone strip on the inside to prevent slipping.

First Use & Charging

Before first use, fully charge the headlamp. Locate the USB-C charging port on the side of the headlamp. Open the protective cover and connect the provided USB-C charging cable to a power source. The blue indicator lights will flash to show charging status and remain solid when fully charged. Charging takes approximately 1 hour and 30 minutes.

Your browser does not support the video tag.

Video: A user demonstrates the Nitecore NU27 headlamp, highlighting its features including the multi-color temperature lights and USB-C charging. The video shows the headlamp being charged and its various light modes in action.

OPERATING INSTRUCTIONS

Dual Button Interface

The NU27 features a dual-button interface for easy one-handed operation. The **Power Button** controls on/off and brightness levels, while the **Mode Button** switches between color temperatures and auxiliary lights.



Image: A close-up of the Nitecore NU27 headlamp highlighting the "Power Button" for on/off and brightness adjustment, and the "Mode Button" for color temperature switching. A person wearing the headlamp is shown in the background.

Turning On/Off

- To turn on: Long press the Power Button for 1 second.
- To turn off: Long press the Power Button or Mode Button for 1 second.

Changing Brightness Levels (Primary Light)

When the primary white light is on, short press the Power Button to cycle through brightness levels: ULTRALOW - LOW - MID - HIGH.

Changing Color Temperatures (Primary Light)

When the primary white light is on, short press the Mode Button to cycle through color temperatures: Neutral White - Warm White - Cool White.

Accessing Turbo Mode

When the primary white light is on, double press the Power Button to instantly access TURBO mode (600 lumens). Double press again to return to the previously used mode.

Accessing Auxiliary Red Light

- When the light is off, long press the Mode Button for 1 second to turn on the Red Auxiliary light (LOW).
- When the Red Auxiliary light is on, short press the Power Button to cycle through Red LOW - Red HIGH - Red SLOW FLASHING.

Special Modes (SOS / Beacon)

When the light is on (any status), double press the Mode Button to access SOS mode. Short press the Power Button to cycle through SOS - Beacon - Red SLOW FLASHING.

Lockout Mode

To prevent accidental activation during carrying or transportation, the NU27 features a lockout mode. When the headlamp is off, long press both the Power Button and Mode Button for 2 seconds to enter Lockout Mode. The headlamp will flash 3 times to indicate activation. To unlock, long press both buttons for 2 seconds again. The headlamp will automatically unlock when charging.

TECHNICAL DATA / SPECIFICATIONS

Mode	Brightness	Runtime	Beam Distance
Primary Light (Neutral White / Warm Light / Cool White)			
TURBO	600 Lumens	-	123m
HIGH	400 Lumens	3h	99m
MID	200 Lumens	6h 30min	70m
LOW	70 Lumens	13h	43m
ULTRALOW	6 Lumens	57h	13m
Auxiliary Red Light			
HIGH	15 Lumens	8h 30min	7m
LOW	5 Lumens	27h	4m
SLOW FLASHING	15 Lumens	-	-
Primary Light (Neutral White)			
SOS	400 Lumens	-	-
BEACON	400 Lumens	-	-

Note: The stated data is measured by using the built-in Li-ion battery (3.65V 850mAh) under laboratory conditions. The data may vary in real world use due to different environmental conditions.

- **Weight:** 1.98 ounces (56g) (bracket and headband included)
- **Dimensions:** 2.58"D x 1"W x 1.33"H (65.5mm x 33.9mm x 25.5mm)
- **Water Resistance:** IP66 (Dustproof and resistant to strong jets of water)
- **Impact Resistance:** 1 meter
- **Battery:** Built-in 850mAh Li-ion battery
- **Material:** Polycarbonate

MAINTENANCE

- **Cleaning:** Wipe the headlamp body and lens with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the headlamp in a cool, dry place away from direct sunlight and extreme temperatures. Recharge the battery every 3 months if not in regular use to maintain battery health.
- **Battery Care:** Do not attempt to replace the built-in battery. If the battery performance significantly degrades, contact Nitecore customer support.

TROUBLESHOOTING

- **Headlamp not turning on:** Ensure the battery is charged. Check if the headlamp is in lockout mode (long press both buttons for 2 seconds to unlock).
- **Light output is dim:** Recharge the battery. Ensure the lens is clean.
- **Charging issues:** Ensure the USB-C cable is properly connected to both the headlamp and the power source. Try a different USB-C cable or power adapter.

- **Buttons unresponsive:** If the headlamp is wet, ensure the buttons are dry and free of debris. If the issue persists, contact customer support.

WARRANTY AND SUPPORT

The Nitecore NU27 headlamp comes with a limited warranty. For detailed warranty information, product support, or service inquiries, please refer to the official Nitecore website or contact your local distributor. Keep your purchase receipt for warranty claims.