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Nitecore NU25-400UL

Nitecore NU25 MCT UL Headlamp Instruction Manual

Model: NU25-400UL | Brand: Nitecore

INTRODUCTION

The Nitecore NU25 MCT UL ultralight rechargeable headlamp is designed for optimal performance in various outdoor activities such as camping, hiking, trail running, and more. Its innovative design and multiple light modes provide versatility and reliability for your adventures. This manual provides essential information on setting up, operating, and maintaining your headlamp.



WHAT'S IN THE BOX

- Nitecore NU25 MCT Headlamp
- USB-C to USB-C Charging Cable
- Bracket
- Headband
- Diffusing Stuff Sack
- Nitecore Sticker

KEY FEATURES

- **Bright Ultralight Design:** Emits up to 400 lumens with a max beam distance of 144 yards, weighing only 1.65 oz.
- **Multi-Color Temperature:** Easily switch between warm (3000K), neutral (4500K), and cool (6500K) white lights for optimal visibility in various conditions.
- **Versatile Outputs:** Features 4 brightness levels, SOS, beacon, and an auxiliary red light with three modes (Low, High, Slow Flashing).
- **USB-C Rechargeable:** Built-in USB-C port for convenient charging. Up to 45 hours runtime on lowest setting, fully recharges in just over 1 hour.
- **Durable and Weatherproof:** Crafted from durable PC material, rated IP66 waterproof, and impact resistant up to 1 meter.

SETUP

Attaching and Adjusting the Headband

The NU25 MCT UL features an ultra-lightweight headband designed for maximum stress-free wearing. The elastic cords are easily adjustable to fit various head sizes securely.

1. Unpack the headlamp and the headband.
2. Attach the elastic cords of the headband to the designated slots on the headlamp's bracket.
3. Place the headlamp on your head. Use the adjustable buckle on the headband to tighten or loosen the fit until it is snug and comfortable.
4. Ensure the headlamp is positioned correctly on your forehead, with the light facing forward.

All-round Lightweight Design

Every refinement exhibits NITECORE's relentless pursuit of professional and lightweight outdoor lighting solutions.

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Ultra Lightweight Headband
For maximum stress-free wearing

PC Plastic Material
Solid and durable

Hollow Bracket
Further reducing the burden of wearing

* The weight includes both the bracket and the headband.

Figure 2: All-round Lightweight Design with adjustable headband.

OPERATING INSTRUCTIONS

Dual Buttons Interface

The NU25 MCT UL utilizes a dual-button interface for intuitive and seamless operation:

Power Button (): Used for On/Off and adjusting brightness levels.

Mode Button (MODE): Used for switching color temperatures and accessing special modes.



Figure 3: Dual Buttons Interface with Power and Mode buttons, and Power Indication.

Power On/Off and Brightness Adjustment

The Ultra-High Efficiency (UHE) LEDs can emit a bright 400 lumen beam that can reach distances of up to 144 yards.



Figure 4: Night Master with 400 Lumens and 132 Meters beam distance, featuring TrueVision Optical Matrix Lens System.

1. **To Turn On:** Long press the Power Button () for 1 second.
2. **To Adjust Brightness:** While the light is on, short press the Power Button () to cycle through brightness levels (Ultralow, Low, Mid, High).
3. **To Turn Off:** Long press the Power Button () for 1 second.

Color Temperature Switching

The headlamp offers three distinct white light color temperatures:

- **Warm Light (3000K):** Easier on the eyes, able to cut through fog and rain.
- **Neutral White (4500K):** Clear and natural light for various daily activities.
- **Cool White (6500K):** Enhanced visibility and contrast in outdoor environments.

To switch between color temperatures, short press the Mode Button (MODE) while the light is on.



Figure 5: Dual Primary Lights with 3000K Warm, 4500K Neutral White, and 6500K Cool White options.

Red Light Mode

The auxiliary red light is ideal for preserving night vision, stargazing, night photography, or as a signal light.

1. **To Activate Red Light:** Long press the Mode Button (MODE) for 1 second.
2. **To Adjust Red Light Brightness/Mode:** While in Red Light mode, short press the Mode Button (MODE) to cycle through Low, High, and Slow Flashing Red modes.
3. **To Exit Red Light Mode:** Long press the Mode Button (MODE) for 1 second.

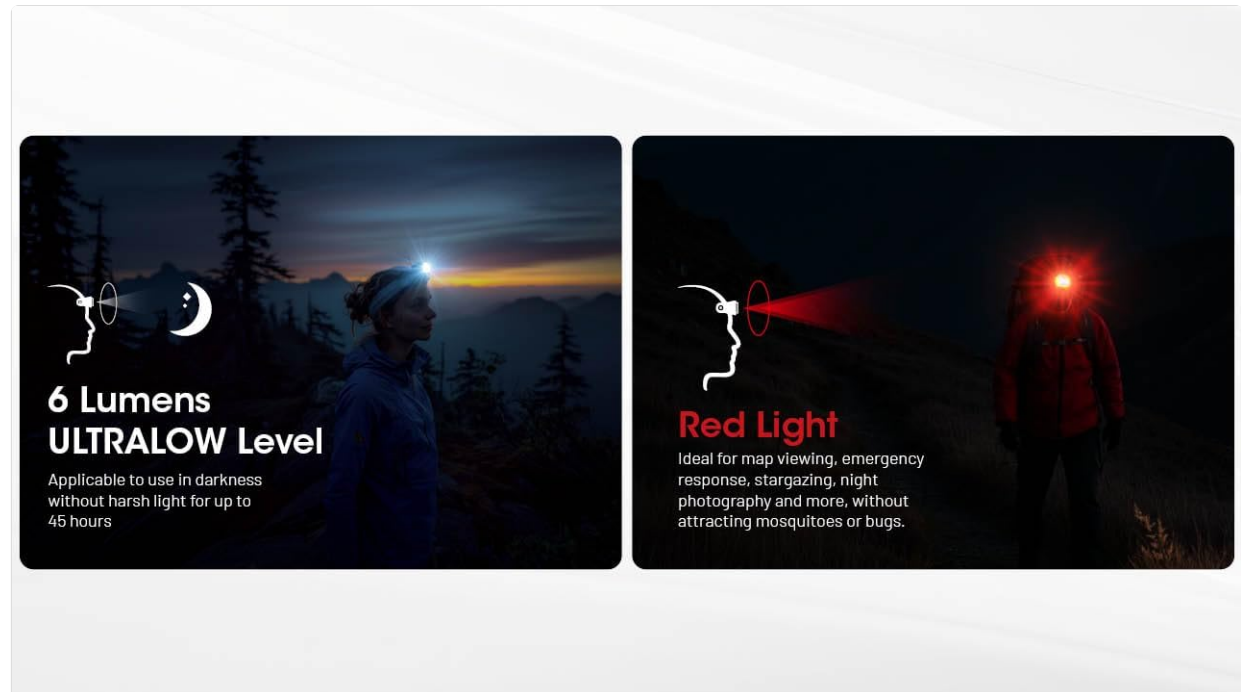


Figure 6: Ultralow Level (6 Lumens) for extended use and Red Light for night vision preservation.

Special Modes (SOS & Beacon)

The NU25 MCT UL includes SOS and Beacon modes for emergency situations.

1. **To Activate SOS/Beacon:** From any state (on or off), double-press the Power Button () rapidly to enter SOS mode. Double-press again to cycle to Beacon mode.
2. **To Exit Special Modes:** Short press the Power Button () or Mode Button (MODE) to return to the previously used mode, or long press the Power Button () to turn off.

Lockout Mode

Lockout mode prevents accidental activation during carrying or storage.

1. **To Activate Lockout:** While the headlamp is off, simultaneously long press both the Power Button () and Mode Button (MODE) for 2 seconds until the light flashes once. The headlamp is now locked.
2. **To Deactivate Lockout:** Simultaneously long press both the Power Button () and Mode Button (MODE) for 2 seconds until the light flashes once and then turns on. The headlamp is now unlocked.

Battery Indication and Charging

The headlamp features a power indicator to show remaining battery life.

- **To Check Battery Level:** While the headlamp is off, short press the Power Button (). The blue indicator lights will show the battery status.
- **Charging:** Open the USB-C port cover on the side of the headlamp. Connect the included USB-C charging cable to the port and a power source. The indicator lights will show charging progress. A full charge takes approximately 1 hour.

MAINTENANCE

- **Cleaning:** Wipe the headlamp with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials.
- **Water Resistance:** The NU25 MCT UL is IP66 rated, meaning it is protected from dust and powerful water jets. Ensure the USB-C port cover is securely closed to maintain water resistance.
- **Storage:** Store the headlamp in a cool, dry place away from direct sunlight and extreme temperatures. Activate lockout mode before storing to prevent accidental activation.

TROUBLESHOOTING

- **Light Not Turning On:**
 - Check if the headlamp is in Lockout Mode. Deactivate it as described in the Operating Instructions.
 - Ensure the battery is charged. Recharge if necessary.
- **Light Output is Dim:**
 - The battery might be low. Recharge the headlamp.
 - The headlamp might be in a lower brightness setting. Adjust using the Power Button.
 - The product is equipped with a thermal protection function, which automatically regulates output to maintain optimal performance and prevent overheating.
- **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.

SPECIFICATIONS

Brand	Nitecore
Model	NU25-400UL
White Brightness	400 Lumens (Max)
Light Path Distance	144 Yards (Max)
Item Weight	1.6 ounces
Power Source	Battery Powered (1 Lithium Polymer battery included)
Runtime (Highest Setting)	2 hours
Runtime (Lowest Setting)	45 hours
Water Resistance Level	IP66 (Water Resistant)
Material	Plastic
Product Dimensions	2.36"D x 1.01"W x 1.3"H

Technical Data

FLL STANDARD	Primary Light (Neutral White Light / Warm Light / Cool White Light)				Auxiliary Red Light			Primary Light (Neutral White Light)	
	HIGH	MID	LOW	ULTRALOW	HIGH	LOW	SLOW FLASHING	SOS	BEACON
	400 Lumens	200 Lumens	60 Lumens	6 Lumens	15 Lumens	5 Lumens	15 Lumens	400 Lumens	400 Lumens
	2h 40min	5h	13h	45h	10h	26h	—	—	—
	132m	94m	51m	13m	7m	4m	—	—	—
	4,351cd	2,192cd	662cd	43cd	13cd	5cd	—	—	—
	1m								
	IP66								

Note: The stated data is measured by using the built-in 700mAh Li-ion battery (3.85V) in accordance with the international flashlight testing standards ANSI/PLATO FL 1-2019 at an ambient temperature of 26°C (79°F) from the NITECORE Lab. The data may vary in real world use due to different environmental conditions.

*This product is equipped with a thermal protection function, which automatically regulates the output of the product according to the working condition to maintain the optimal performance.

Figure 7: Detailed Technical Data for Nitecore NU25 MCT UL.

WARRANTY AND SUPPORT

The Nitecore NU25 MCT UL Headlamp comes with a Limited Warranty. For detailed warranty information, product support, or to contact customer service, please visit the official Nitecore website or refer to the warranty card included in your product packaging.

You can also visit the [Nitecore Store on Amazon](#) for more products and information.