

sofirn NBT-001

Sofirn 1200 Lumen Rechargeable Headlamp User Manual

Model: NBT-001

PRODUCT OVERVIEW

The Sofirn 1200 Lumen Rechargeable Headlamp (Model NBT-001) is a versatile and powerful lighting solution designed for various activities including camping, running, hiking, and emergency use. It features a bright SST40 LED, multiple lighting modes, and convenient USB-C recharging.



Figure 1: Sofirn 1200 Lumen Rechargeable Headlamp with adjustable strap.

Key Features:

- **Ultra Bright:** SST40 LED delivers 1200 lumens maximum output.
- **Multiple Modes:** Features 5 different modes: Low, Medium 1, Medium 2, High, Turbo.
- **USB-C Rechargeable:** Convenient hidden USB-C port for easy charging.
- **Durable Construction:** Aircraft-grade aluminum alloy case with hard-anodized finish, tough and waterproof.
- **Lightweight & Comfortable:** Weighs approximately 2.9 ounces with a fully adjustable headband.

PACKAGE CONTENTS

Please ensure all items are present in your package:

- 1x Sofirn Headlamp
- 1x Rechargeable Battery (pre-installed or separate)
- 1x USB-C Charging Cable
- 1x User Manual (this document)

SETUP

1. Battery Installation & First Use

The headlamp comes with a rechargeable Lithium Polymer battery. It may be pre-installed or require insertion.

1. Unscrew the end cap of the headlamp to access the battery compartment.
2. Insert the provided 18650 Lithium Polymer battery with the positive (+) end facing towards the headlamp's LED end.
3. Securely screw the end cap back on.
4. Before first use, fully charge the headlamp.

2. Charging the Headlamp

The Sofirn headlamp features a hidden USB-C charging port for convenient recharging.

1. Locate the hidden USB-C port on the side of the headlamp. It is usually protected by a cap or a rotating section of the body.
2. Connect the provided USB-C cable to the headlamp's port and the other end to a standard USB power source (e.g., wall adapter, power bank, computer USB port).
3. An indicator light will show the charging status (e.g., red for charging, green for full).
4. Once fully charged, disconnect the cable and ensure the USB-C port is properly sealed to maintain waterproof integrity.



Figure 2: The headlamp features a hidden USB-C charging port for convenience.



Figure 3: Detail of the USB-C port, typically protected by a rotating collar.

3. Adjusting the Headband

The elastic headband is fully adjustable to fit various head sizes or to be worn over a hard hat.

- Place the headlamp on your head or hard hat.
- Adjust the straps by pulling them through the buckles until a comfortable and secure fit is achieved.



Figure 4: The headband is adjustable for a comfortable fit, and the lamp head can pivot 180 degrees.

OPERATING INSTRUCTIONS

Power On/Off and Mode Selection

The headlamp features a simple user interface with a single power button.



Figure 5: The comfortable power button with simple UI and memory mode.

- To turn **ON** the headlamp, press the power button once.
- To turn **OFF** the headlamp, press the power button once again.
- To change brightness modes (Low, Medium 1, Medium 2, High, Turbo), press and hold the power button while the light is on. The headlamp will cycle through the modes. Release the button to select the desired mode.
- The headlamp has a memory function and will turn on in the last used brightness mode.
- For special modes like Strobe, a quick double-press or triple-press might activate it (refer to specific product documentation if available, as this is a common flashlight feature).

Adjusting Beam Angle

The headlamp unit can be tilted up or down to direct the light where needed.

- Gently tilt the headlamp body within its bracket to adjust the beam angle up to 180 degrees.



Figure 6: The headlamp offers 180-degree rotation for flexible lighting.



Figure 7: Example of the headlamp's wide and powerful beam.

MAINTENANCE

- **Cleaning:** Wipe the headlamp with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Care:**

- Charge the battery regularly, even if not in frequent use, to prolong its lifespan.
 - Avoid fully discharging the battery.
 - If storing for extended periods, charge the battery to about 50% and store in a cool, dry place.
 - The battery can be removed and charged externally with a compatible 18650 charger if desired.
- **Water Resistance:** The headlamp is waterproof. Ensure the USB-C port cover is securely closed to maintain its water resistance rating (IP65).
 - **Storage:** Store the headlamp in a dry place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Headlamp does not turn on.	Battery is dead or improperly installed.	Charge the battery. Ensure the battery is inserted with correct polarity (+/-).
Light is dim or flickers.	Low battery charge.	Recharge the battery fully.
Headlamp gets warm during use.	Normal operation, especially on High/Turbo modes.	This is expected due to high lumen output. If it becomes excessively hot, reduce brightness or turn off briefly.
USB-C port not charging.	Cable issue, port obstruction, or power source problem.	Try a different USB-C cable and power source. Ensure the port is clean and free of debris.

SPECIFICATIONS

Feature	Detail
Brand	Sofirn
Model Number	NBT-001
Light Source	SST40 LED
Brightness	Up to 1200 Lumens
Power Source	Battery Powered (Rechargeable)
Battery Type	1x Lithium Polymer (18650)
Charging Port	USB-C
Material	Aircraft-grade Aluminum Alloy
Water Resistance	Waterproof (IP65 rating implied by "waterproof" and common for headlamps)
Item Weight	2.82 ounces (approx. 80 grams)
Product Dimensions	3.39"D x 0.98"W x 0.98"H

WARRANTY AND SUPPORT

This Sofirn headlamp comes with a **1-year warranty** from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims.

For technical support, warranty claims, or further inquiries, please contact Sofirn customer service through the retailer where the product was purchased or visit the official Sofirn website.