

Sofirn HS41

Sofirn HS41 4000 Lumen Rechargeable LED Headlamp User Manual

Model: HS41

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation, maintenance, and troubleshooting of your Sofirn HS41 4000 Lumen Rechargeable LED Headlamp. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.



The Sofirn HS41 can be used as a headlamp with the included headband or as a versatile right-angle flashlight, featuring a magnetic base for hands-free operation.

2. PRODUCT OVERVIEW

Key Features

- **High Output:** Equipped with 4*SST20 LEDs, delivering up to 4000 lumens with a beam distance of 325 meters.
- **USB-C Charging:** Built-in Type-C port for convenient and fast charging.
- **Extended Runtime:** Up to 29.5 days of usage in Moonlight mode on a single charge.
- **Multiple Lighting Modes:** 9 modes including Moonlight, Eco, Low, Medium, High, Turbo, Strobe, SOS, and Beacon.
- **Durable Design:** IPX8 waterproof rating and impact resistance up to 1 meter.
- **Versatile Use:** 90-degree L-shape design allows use as a headlamp or right-angle flashlight with a powerful magnetic tailcap.
- **Safety Features:** Advanced Temperature Regulation (ATR) and Low Voltage Protection.



9 LIGHTING MODES



29.5 DAYS ULTRA-LONG RUNTIME ON MOON



RECHARGEABLE & REVERSE CHARGING



IP68 WATER RESISTANCE

ADJUSTABLE HEADBAND



This image highlights the main features of the HS41, such as its multiple lighting modes, extended battery life, convenient USB-C charging, and robust IP68 waterproof design.

What's in the Box

- Sofirn HS41 Headlamp
- 1x Rechargeable Lithium Polymer Battery
- 1x Sturdy Head Band
- 1x Type-C Charging Cable
- 1x User Manual

3. SAFETY INSTRUCTIONS

- Do not shine the light directly into eyes. The high lumen output can cause temporary vision impairment.
- Keep out of reach of children.
- Use only the specified battery type. Incorrect battery usage can lead to damage or safety hazards.
- Do not disassemble the headlamp, as this may void the warranty and cause damage.

- Avoid exposing the headlamp to extreme temperatures or direct sunlight for prolonged periods.
- Ensure the USB-C port cover is securely closed when not charging to maintain water resistance.

4. SETUP

Battery Installation

1. Unscrew the tail cap of the headlamp.
2. Insert the included 18650 Lithium Polymer battery with the positive (+) end facing towards the head of the light.
3. Screw the tail cap back on tightly to ensure proper contact and water resistance.

Charging

The HS41 features a built-in USB-C charging port.

1. Locate the USB-C charging port on the side of the headlamp and open its protective cover.
2. Connect the provided Type-C charging cable to the headlamp and to a USB power source (e.g., wall adapter, power bank, computer).
3. The indicator light on the headlamp will show the charging status:
 - **Red:** Charging in progress.
 - **Green:** Fully charged.
4. Charging typically takes approximately 2.5 hours for a full charge.
5. Once charging is complete, disconnect the cable and securely close the USB-C port cover to maintain water resistance.



The headlamp features a built-in USB-C port for convenient and fast charging. The indicator light changes color to show charging status.

5. OPERATING INSTRUCTIONS

The HS41 is operated via a single side switch.

Basic Operation

- **Turn On/Off:** Single click the switch to turn the light on or off.
- **Change Brightness (Ramping):** When the light is on, press and hold the switch to cycle through brightness levels (Moonlight, Eco, Low, Medium, High, Turbo). Release the switch at your desired brightness.
- **Mode Memory:** The headlamp will remember the last used brightness level (except for special modes like Strobe, SOS, Beacon).

Quick Access Modes

- **Moonlight:** From OFF, press and hold the switch for 1 second to activate Moonlight mode.
- **High Mode:** From OFF, double-click the switch to directly activate High mode.
- **Strobe Mode:** From OFF, triple-click the switch to activate Strobe mode.

BUILT-IN USB C PORT FOR QUICKER CHARGING & REVERSE CHARGING



The headlamp's single button allows for quick access to frequently used modes: press and hold for Moonlight, double-click for High, and triple-click for Strobe.

Special Modes (Strobe, SOS, Beacon)

- From ON, triple-click the switch to enter Strobe mode.
- While in Strobe mode, double-click to cycle through SOS and Beacon modes.
- Single click to turn off or return to the previous brightness level.



The HS41 delivers a powerful 4000 lumens, providing extensive illumination for outdoor activities. The image shows the light beam and icons representing modes like Moonlight, Eco, Low, Medium, High, Turbo, Strobe, Beacon, and SOS.

Lockout Function

To prevent accidental activation, the HS41 features a lockout mode.

- **Activate Lockout:** From OFF, perform four quick clicks of the switch. The LED will blink twice to confirm lockout mode is active.
- **Deactivate Lockout:** Perform four quick clicks of the switch. The light will turn on to the last used mode.

Multi-use Light

EDC flashlight



Size: 30.1* 29* 115mm



Weight: 79g



work light

It comes with a magnetic tail that can easily attach to any metal surface, which is very useful to use the headlamp hands-free.



Headlamp

Attached headband is used when a user needs to have their hands free to perform a task or working in low-light conditions.

The headlamp features a lockout mode to prevent accidental activation. It is engaged by four quick clicks when the light is off, indicated by two blinks.

Power Indicator

The power indicator displays the battery level for 5 seconds every time the light is turned on.

- **Green:** Remaining battery power is good (70% - 100%).
- **Red:** Remaining battery power is poor (30% - 69%).
- **Flashing Red:** Critical power (less than 30%). Recharge the battery as soon as possible.

LONGER RUNTIME

2.5 hours charging brings 7 days of runtime in eco mode



The integrated power indicator provides real-time battery status: green (70-100%), red (30-69%), and flashing red (below 30%), prompting timely recharging.

Low Voltage Warning

When the battery voltage drops below 3V, the indicator will flash red, and the headlamp will vibrate twice with a 1-minute interval between each vibration. This signals that the battery needs to be recharged immediately.

DIRECT ACCESS FOR ADDED CONVENIENCE



Press and Hold to Enter Moonlight



Double-Click to Enter High Mode



Triple-Click to Enter Strobe Mode



When the battery voltage drops below 3V, the headlamp's indicator will flash red, and the device will vibrate twice with a one-minute interval, signaling a low voltage condition.

6. MAINTENANCE

Cleaning

- Wipe the headlamp with a soft, damp cloth to remove dirt and debris.
- Do not use abrasive cleaners or solvents, as they may damage the finish or internal components.
- Clean the threads of the tail cap and O-rings periodically. Apply a thin layer of silicone grease to the O-rings to maintain water resistance.

Battery Care

- Recharge the battery regularly, especially if the headlamp will not be used for an extended period.
- Store the battery in a cool, dry place.
- If storing for a long time, remove the battery from the headlamp to prevent parasitic drain.

Storage

- Store the headlamp in a dry environment, away from direct sunlight and extreme temperatures.
- Ensure the headlamp is in lockout mode or the battery is removed during storage to prevent accidental activation.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on	Battery depleted Battery incorrectly inserted Tail cap loose Headlamp in lockout mode	Recharge battery Check battery polarity Tighten tail cap Deactivate lockout mode (4 clicks)
Light flickers or is dim	Low battery Poor contact between battery and terminals Dirty threads/contacts	Recharge battery Ensure battery is fully inserted Clean threads and contacts with a cotton swab
Charging not working	Charging cable faulty USB power source insufficient Charging port dirty	Try a different USB-C cable Use a reliable USB power adapter Clean the USB-C port gently
Headlamp gets hot quickly	Operating in Turbo/High mode for extended periods ATR (Advanced Temperature Regulation) is active	This is normal. The ATR system will automatically reduce brightness to prevent overheating. Reduce brightness manually if desired.

8. SPECIFICATIONS



Feature	Specification
Model	HS41
Light Source	4*SST20 LEDs
Maximum Brightness	4000 Lumens
Beam Distance	325 meters

Feature	Specification
Power Source	1x Rechargeable Lithium Polymer Battery (included)
Charging Port	USB Type-C
Material	Aluminum Alloy
Water Resistance	IPX8 (submersible up to 2 meters for 30 minutes)
Impact Resistance	1 meter
Dimensions	1"D x 1"W x 1"H (approx. 30.1mm x 29mm x 115mm)
Weight	0.71 Pounds (approx. 11.4 ounces / 79g without battery)
Special Features	Adjustable Light Modes, Adjustable Strap, Magnetic Base, Low Voltage Warning, Advanced Temperature Regulation

9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact the seller, 77 Outdoor Shop, or the manufacturer, Sofirn, directly through their official channels. Please retain your proof of purchase for any warranty claims.

Related Documents - HS41

	<p>Sofirn HS41 Flashlight User Manual and Specifications</p> <p>Comprehensive user manual for the Sofirn HS41 right-angle flashlight. Learn about its 4000-lumen output, SST-20 LEDs, 21700 battery compatibility, operation modes, charging, safety guidelines, and troubleshooting.</p>
	<p>Sofirn H35R Rechargeable LED Headlamp User Manual</p> <p>User manual for the Sofirn H35R rechargeable LED headlamp. Provides details on technical parameters, battery installation, operation instructions, recharging, and tips for optimal use.</p>

<div><div>Sofirn SC32 Manual</div><div></div><div><p>Model: SC32 Power: 2000lm Beam: 100m Battery: 18650 Weight: 120g</p></div></div>	<div><div>Sofirn SC32 Flashlight User Manual: Features, Operation, and Specifications</div><div>Comprehensive user manual for the Sofirn SC32 flashlight, detailing its features, ANSI/NEMA FL1 performance, operation modes, charging, safety instructions, and troubleshooting. Learn how to use your 2000-lumen LED flashlight.</div></div>
<div><div>Sofirn HS40 Manual</div><div></div><div><p>Model: HS40 Power: 1000lm Beam: 100m Battery: 18650 Weight: 100g</p></div></div>	<div><div>Sofirn HS40 Headlamp: Manual, Specifications, and Operation Guide</div><div>A comprehensive guide to the Sofirn HS40 headlamp, detailing its specifications, safety instructions, operation modes (stepped and ramping), circuit protection, battery details, and troubleshooting tips. Learn how to use and maintain your Sofirn HS40 for optimal performance.</div></div>
<div><div>Sofirn SP40/SP40A Manual</div><div></div><div><p>Model: SP40/SP40A Power: 1000lm Beam: 100m Battery: 18650 Weight: 100g</p></div></div>	<div><div>Sofirn SP40/SP40A LED Headlamp User Manual and Specifications</div><div>Comprehensive user manual and technical specifications for the Sofirn SP40 and SP40A LED headlamps, detailing features, operation, battery information, and maintenance.</div></div>
<div><div>Sofirn SF15 Manual</div><div></div><div><p>Model: SF15 Power: 300lm Beam: 100m Battery: 18650 Weight: 100g</p></div></div>	<div><div>Sofirn SF15 Pen Flashlight User Manual: Operation, Specs & Safety</div><div>Official user manual for the Sofirn SF15 pen flashlight. Details include dual white/UV LED modes, 300-lumen output, ANSI FL1 performance chart, specifications, battery installation, operation instructions, safety warnings, and troubleshooting tips.</div></div>

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Thank you for purchasing this Sofirn product
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The Sofirn HS41 is a right-angle flashlight designed to meet your high-performance lighting needs. Equipped with four SST20 LEDs, the HS41 delivers an impressive maximum output of 4000 lumens, providing you with a bright and reliable light source. Whether you're camping, hiking, or exploring, the HS41's powerful beam illuminates your surroundings, ensuring maximum visibility and safety. Powered by a single 21700 battery and featuring an intuitive user interface, the HS41 is a reliable companion for everyday use.

ANSI/NEMA FL1 Chart

Modes	Maxlight	On	Low	10-40m	High	Triple	Strobe	SOS	Beam
Maximum Power	1h	10lm	150lm	500lm	1500lm	4000lm	4000lm	500lm	4000lm
Beam Distances	lm	10m	70m	170m	210m	370m	-	-	-
Battery	20-1 days	170h	11h	3h-4h	3h-1h	3h	4h	11h	11-1h
Peak Intensity	30.4	58-125cd	1170-104	3783-30.4	11300-4	26475.4	-	-	-
SIMILAR ITEM	lm / 3.7m								

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