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- sofirn /
- > Sofirn SC21 Pro Mini Flashlight User Manual

sofirn SC21 Pro

Sofirn SC21 Pro Mini Flashlight User Manual

Model: SC21 Pro

1. Introduction

The Sofirn SC21 Pro is a compact and powerful mini flashlight designed for everyday carry (EDC) and various lighting needs. Featuring an upgraded Anduril UI, high lumen output, and USB-C rechargeable capabilities, it offers versatile and reliable illumination.

Key Features:

- TOP TIER ANDURIL UI: Upgraded Anduril user interface for advanced control.
- SMALL, BUT POWERFUL: Outputs up to 1100 lumens with a beam reach of up to 429ft, ideal for pocket carry.
- USB-C CHARGING: Convenient internal charging via USB Type-C port.
- **READY FOR ALL WEATHER:** Constructed from aviation-grade aluminum alloy, resistant to extreme weather.
- MAGNETIC TAIL CAP: Allows attachment to metal surfaces for hands-free use, includes a pocket clip.

Package Contents:

- 1 x Sofirn SC21 Pro Mini Flashlight
- 1 x 16340 Battery (pre-installed)
- 1 x USB-C Charging Cable
- 1 x User Manual
- 1 x Pocket Clip
- Spare O-rings
- Lanyard



Image: The Sofirn SC21 Pro Mini Flashlight, showcasing its compact design and side button.

2. SETUP

2.1 Battery Installation

- 1. Unscrew the tail cap of the flashlight.
- 2. Insert the included 16340 battery with the positive (+) end facing towards the head of the flashlight.
- 3. Screw the tail cap back on tightly to ensure proper electrical contact and water resistance.

Note: The battery may come pre-installed. If so, ensure the tail cap is tightened before first use.

2.2 Charging the Battery

- 1. Locate the USB Type-C charging port on the side of the flashlight.
- 2. Connect the provided USB-C charging cable to the flashlight and a compatible USB power source (e.g., computer, wall adapter).
- 3. The indicator light on the side button will show charging status:
 - Red: Charging in progress.
 - Green: Charging complete.
- 4. A full charge typically takes approximately 1.5 hours (with a 5V/1A power source).



Image: The Sofirn SC21 Pro connected to a USB-C charging cable, with the indicator light showing charging status.

3. OPERATING INSTRUCTIONS

The SC21 Pro utilizes the advanced Anduril UI, offering extensive customization and multiple modes. This manual covers basic operations. For detailed advanced features, please refer to the comprehensive Anduril UI diagram often provided with the product or available online.

3.1 Basic Operation (Stepped Ramping Mode - Default)

- Turn ON/OFF: Single click the side button.
- Change Brightness (Ramping): When ON, press and hold the button to ramp up or down. Release and press-and-hold again to reverse direction.
- **Direct Low:** From OFF, press and hold the button to turn on at the lowest brightness level.
- **Direct Turbo:** From ON or OFF, double-click the button to activate Turbo mode (maximum brightness). Double-click again to return to the previous brightness level.
- Battery Voltage Check: From OFF, triple-click the button. The main LED will flash out the voltage (e.g., 4 flashes, pause, 2 flashes for 4.2V).

3.2 Lockout Function

To prevent accidental activation (e.g., in a pocket or bag), use the electronic lockout:

- Activate Lockout: From OFF, 4 clicks. The light will flash once to confirm.
- Deactivate Lockout: From locked, 4 clicks. The light will turn on at the previously used brightness.
- Momentary Low (from Lockout): From locked, press and hold. The light will turn on at a low level. Release to turn off.
- **Momentary High (from Lockout):** From locked, double-click and hold. The light will turn on at a high level. Release to turn off.

3.3 Muggle Mode

Muggle mode simplifies the UI for basic users, limiting brightness and disabling advanced features.

- Activate Muggle Mode: From OFF, 6 clicks.
- Deactivate Muggle Mode: From Muggle mode, 6 clicks.

3.4 Using the Magnetic Tail Cap and Pocket Clip

- The integrated magnetic tail cap allows you to attach the flashlight to any ferrous metal surface for hands-free illumination.
- The dual-way pocket clip can be used to secure the flashlight to clothing (e.g., pocket, belt, hat brim) or gear.



Image: The Sofirn SC21 Pro demonstrating its magnetic tail cap attached to a metal surface and its dual-way clip on a hat.

4. MAINTENANCE

4.1 Cleaning

- Regularly clean the threads and O-rings with a clean cloth.
- If the flashlight experiences poor connection, wipe the spring or the ends of the battery with alcohol to remove any debris.
- Do not use harsh chemicals or abrasive materials for cleaning.

4.2 Storage

- For long-term storage, unscrew the tube slightly or remove the battery to prevent accidental activation and parasitic drain.
- Store the flashlight in a cool, dry place away from direct sunlight and extreme temperatures.

4.3 Water Resistance

The SC21 Pro is designed to be water-resistant. Ensure all parts are tightly screwed to maintain its water resistance rating. Avoid submerging the flashlight for extended periods or in high-pressure water environments unless specified otherwise.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Flashlight does not turn on or is dim.	Low battery.Poor electrical contact.Lockout mode activated.	 Charge the battery fully. Wipe battery ends and spring with alcohol; ensure tail cap is tightened. Deactivate lockout mode (4 clicks from OFF).
Light flickers or turns off unexpectedly.	 Loose connections. Battery nearly depleted. Overheating (in Turbo mode). 	 Tighten all parts (head, body, tail cap). Recharge the battery. Reduce brightness or allow to cool down.
Cannot switch modes or access advanced features.	In Muggle mode.Incorrect button presses.	 Deactivate Muggle mode (6 clicks from OFF). Refer to the Anduril UI diagram for precise button commands.

6. SPECIFICATIONS

Feature	Detail
Brand	sofirn
Model	SC21 Pro
Light Source Type	LED (LH351D, 90 High CRI, 5000K)
Brightness	Up to 1100 Lumens
Beam Distance	Up to 429ft (131 meters)
Power Source	Battery Powered
Battery Type	1 x 16340 Lithium Polymer (included)
Charging	USB Type-C Rechargeable
Material	Aviation-grade Aluminum Alloy
Dimensions (L x W x H)	3.8"D x 2.5"W x 1.6"H
Weight	2.1 ounces

Feature	Detail
Water Resistance Level	Water Resistant
Special Features	Adjustable Light Modes, Lightweight, Portable, Rechargeable, Weatherproof, Magnetic Tail Cap, Anduril UI



Image: Visual representation of the Sofirn SC21 Pro's small and lightweight design, showing its length, diameter, and weight.

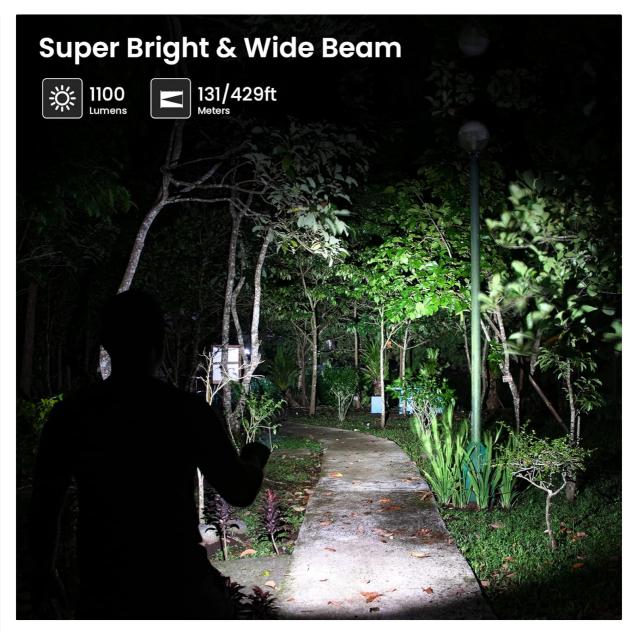


Image: The Sofirn SC21 Pro illuminating a path at night, demonstrating its super bright and wide beam pattern.

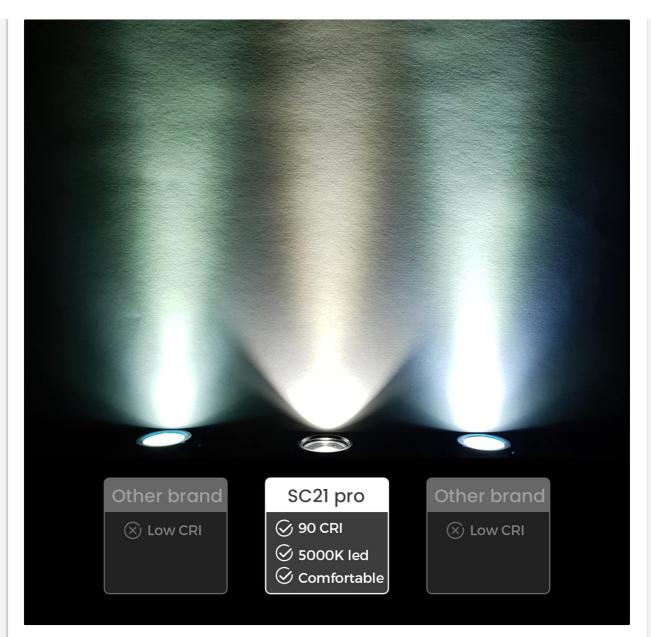


Image: A comparison showing the superior color rendering (90 CRI, 5000K) of the Sofirn SC21 Pro compared to other low CRI lights.

7. WARRANTY AND SUPPORT

Sofirn products are designed for durability and performance. For specific warranty details, including coverage period and terms, please refer to the warranty card included with your purchase or visit the official Sofirn website.

If you encounter any issues or have questions regarding your Sofirn SC21 Pro Mini Flashlight, please contact Sofirn customer support through their official website or the retailer from whom you purchased the product. Please have your model number and purchase date ready when contacting support.

Official Sofirn Website: www.sofirnlight.com



Sofirn SP10 Pro LED Flashlight User Manual and Specifications

Comprehensive user manual for the Sofirn SP10 Pro EDC flashlight, detailing specifications, operation instructions for Simple and Advanced UI, safety guidelines, and troubleshooting. Features LH351D LED, Anduril 2.0, and multiple battery compatibility.



Sofirn SP10 Pro Flashlight Manual and Specifications

Comprehensive manual for the Sofirn SP10 Pro flashlight, detailing its features, specifications, operation instructions, and troubleshooting. Covers ANSI/NEMA FL1 standards, battery compatibility, and the Anduril 2.0 user interface.



Sofirn SC31 Pro Flashlight User Manual

Comprehensive user manual for the Sofirn SC31 Pro flashlight, detailing its features, operation, safety instructions, and maintenance. Covers both Simple and Advanced UI modes powered by Anduril 2.



Sofirn SP36 BLF Anduril (SP36 Pro) User Manual

User manual for the Sofirn SP36 BLF Anduril and SP36 Pro flashlights, detailing safety precautions, quick start guide, UI diagram, specifications, blinkies, general configuration, thermal configuration, and troubleshooting.



Sofirn SC28 Rechargeable EDC Flashlight User Manual

Comprehensive user manual for the Sofirn SC28 rechargeable EDC flashlight, covering specifications, operation, safety, and troubleshooting. Features 2800 lumens output and ANSI/NEMA FL1 performance data.



SOFIRN SC13 CU User Manual - Compact Copper EDC Flashlight

Detailed user manual for the SOFIRN SC13 CU flashlight. Learn about its features, specifications, Anduril UI, touch operation, charging, and safety for this compact copper EDC flashlight.