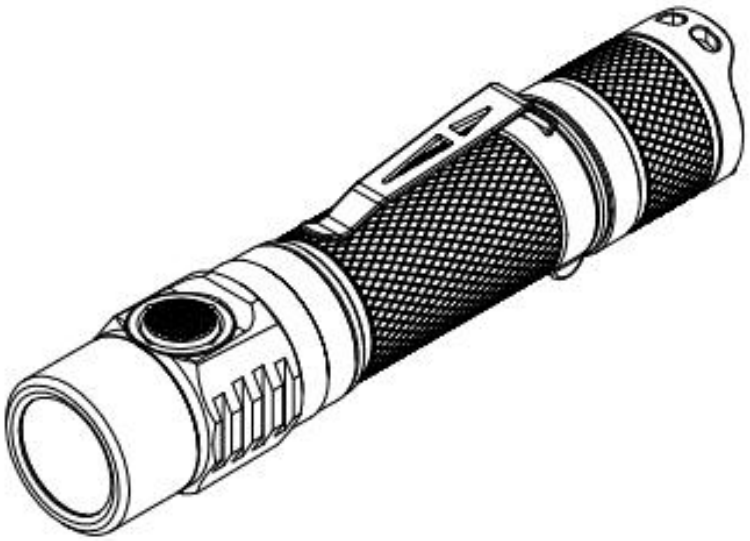
Sofirn SC31T Manual



Web: www.sofirnlight.com www.sofirnlight.cn
Email: us@sofirnlight.com eu@sofirnlight.com
sofirnlight@gmail.com yx003@sofirn.cn

Thank you for purchasing this Sofirn product.
Contact us@sofirnlight.com or eu@sofirnlight.com if you need any assistance.

The **SC31T** is a powerful and versatile EDC flashlight. It utilizes a powerful Luminus SST-40 LED as well as a tactical dual-button interface to serve multiple applications both in conventional and professional home and outdoor scenarios. It is powered by one 18650 battery, can be recharged via USB-C and features a simple but elaborated dual mode user interface, offering both stepped modes and stepless ramping for your convenience. Moreover, SC31T offers advanced thermal regulation (ATR) for optimum output control.

Important advice: Before using or charging, please unscrew the tailcap and remove the insulating paper from the battery and screw the tailcap back on.

ANSI/NEMA FL1 Chart

Group 1 Ramping Mode	**Mode**	**Ramping: Moon to Turbo**						**Strobe**	**SOS**	**Beacon**
	Luminous Flux [lm]	1 - 2000						2000	300	2000
	Runtime [hrs]	depending on ramping level						5	22.5	11.25
Group 2 Stepped Modes	**Mode**	**Moon**	**Eco**	**Low**	**Medium**	**High**	**Turbo**	**Strobe**	**SOS**	**Beacon**
	Luminous Flux [lm]	1	10	80	300	800	2000	2000	300	2000
	Runtime [hrs]	400	230	21	7.5	3.5	2.5	5	22.5	11.25
	Beam	-	21	44	79	121	206	-	-	-

	Distance [m]									
	Peak Intensity [cd]	-	107.5	475	1575	3658.3	10633.3	-	-	-
Impact Resistance		1m / 3.28 ft.								
Water Resistance		up to 2 meter under water, not for diving								
Charging Specification		USB-C port, input DC 5V 1A								
Notes		The above mentioned parameters are based on tests according to international flashlight testing standards (ANSI/NEMA FL1) using one 3000mAh 18650 Li-ion battery in our laboratory. Results may vary with different batteries or under different environmental conditions.								

Safety Instructions

- SC31T is a powerful flashlight. Never point the beam directly at a person, animal or moving vehicles. Doing so could cause retinal damage. Please do not allow children to play with it. Strobe mode may cause seizure in persons with photosensitive epilepsy.
- Operating the flashlight for a long time on Turbo or High mode will warm it up. This is normal.
- When installing the battery, make sure the anode (+) side always faces towards the head/LED.
- Unscrew the tailcap half a turn to avoid unwanted activation during transport. It also prevents the battery from draining while the flashlight is in standby.
- Avoid hitting or dropping the flashlight.

Specifications

- Emitter: 1x Luminus SST-40 LED with a lifespan of up to 50.000 hours
- Battery options: 1x 18650 Li-Ion battery
- Operating voltage: 2.7V - 4.2V
- Dimension: 125.5 mm (length) × 24 mm (head diameter)
- Weight: 67 grams (without battery)
- Flashlight body: Aerospace grade 6061 grade aluminum alloy, CNC manufactured to hard-anodized to military grade specification type III, anti-abrasive finish to get solid built body, anti-crash geometry and better heat exchange.
- Toughened mineral glass lens - scratch and wear resistant
- Mode Memory: memorizes the last brightness level used in the general modes (except turbo/moon)
- Electronic reverse polarity protection from improper battery installation
- Low voltage warning: When the battery voltage is lower than 2.915V, the LED indicator in the side switch will start to flash rapidly to imply the critical battery level. Please recharge the battery.
- Low voltage protection: The flashlight steps down automatically when the voltage is lower than 3.0V. It also turns off automatically if the voltage gets lower than 2.7V. Please recharge the battery.
- Advanced Temperature Regulation (ATR) technology: As the temperature rises, SC31T is programmed to automatically step down and step up the brightness to prevent overheating.
- Low battery level protection: The flashlight steps down automatically when battery level is too low for better output and illumination.

Getting started

Before using the flashlight, unscrew the tailcap from the tube and remove the insulating plate on the battery pole (if battery is supplied with the flashlight). Reinsert the battery with the anode side (+) towards the head, then screw the tailcap back onto the tube. Make sure to fully charge the battery before first use.

Power Indicator

The LED indicator in the side switch shows the power status for 5 seconds after turning SC31T on.

Green = remaining battery power is good.
Red = remaining battery power is poor (less than 30%).
Flashing Red = critical power, replace or recharge battery as soon as possible.

Recharging

SC31T offers a USB-C port for convenient recharging of its 18650 battery. Please connect it with the included USBA to USBC cable and use a USB power adapter (not included) with 5V 1A. While charging the LED power indicator flashes red. Once finished the indicator will turn green to indicate a full battery. If the indicator flashes green and red alternatingly, please check if the insulating paper is removed or if the tailcap and tube are screwed tightly. During charging the main LED will turn off if the flashlight is on and the side switch button deactivated.

Operation Instructions

Tail switch: **Tap for momentary-on, fully press to turn on or off**
SC31T turns on in last-used mode (except moon, turbo, strobes)

Side switch: **Change brightness and modes**

Group 1: Press and hold to change brightness steplessly between Moon and Turbo level. Press again within 1.5 seconds to change the direction. The light flashes once when it reaches the lower or upper end of the ramp.
Group 2: Single-click to cycle through the stepped brightness modes: Eco, Low, Medium and High.
Direct access to Moon mode: When off, press and hold the side switch and then fully press the tailswitch.
Direct access to Turbo mode: Double-click for Turbo, single-click to return to the previous standard mode.
Strobes: Triple-click for Strobe, another double-click to cycle through Strobe, SOS and Beacon, another single-click to return to the previous standard mode.
Toggle between group 1 and 2: While on, four fast clicks to toggle between group 1 (ramping mode) and 2 (stepped modes). Two flashes confirm the change.

Troubleshooting and Maintenance

- Disassembling the sealed head can damage the flashlight and voids the warranty.
- Sofirn Ltd. recommends using high-quality brand batteries. Damage by battery leakage voids the warranty.
- Remove the battery if the flashlight will not be used for an extended period of time.
- To prevent self-discharge or accidental activation during storage or transportation, unscrew the tailcap by half a turn or remove the battery.
- Every 6 months threads should be wiped with a clean cloth followed by a thin layer of silicone grease.
- To maintain a proper level of waterproofness, replace worn-out o-rings with an approved spare.
- Troubleshooting: Clean battery contacts regularly as dirty contacts may impair the performance of the flashlight. If you experience problems (flicker, shine intermittently or failure turn on) the following root causes and solutions should be tried:

Reason A: The battery needs a replacement.
Solution: Replace the battery with an approved type of a fully charged battery.

Reason B: Threads, PCB board contact or other contacts are dirty.
Solutions: Please clean the contact points with a cotton swab soaked in rubbing alcohol.

Reason C: The flashlight will not turn on upon first use.
Solution: Please do not forget to remove the insulation sticker from the battery on first use.

If the above methods do not work please refer to the warranty policy before contacting your authorized distributor.

Sofirn Limited:
Tel: +86-755-23440047 Fax: +86-755-23440141
Web: www.sofirnlight.com
E-mail: us@sofirnlight.com eu@sofirnlight.com wholesale@sofirn.cn

Please contact us if you have any questions.
If your product is defective please contact us for replacement within warranty period.

Manufacturer: Shenzhenshi Jinba Technology Co.,Ltd
Address: 1/F to 9/F, 1st Building, NO.110 Tenglong Industrial Center, Guanlan Street, Longhua New District, Shenzhen 518000, China