

SOFIRN
SD09 Diving
Flashlight



Sofirn SD09 Diving Flashlight Instructions

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SOFIRN

Sofirn SD09 Diving Flashlight



Product Usage Instructions

Before first use, please unscrew the tail cap and remove the insulating sticker. If the battery needs to be replaced, make sure that the positive end of the new battery faces the flashlight's head when inserting it.

The indicator shows the power status for 5 seconds after turning SD09 on:

- Green = remaining battery power is 75%-100%
- Flashing Green = remaining battery power is 50%-75%
- Red = remaining battery power is 25%-50%
- Flashing Red = critical power (less than 25%), please replace or recharge the battery as soon as possible

Product Information

- Do not point the flashlight directly at people, animals, or moving vehicles to avoid retinal damage.
- Avoid allowing children to play with the flashlight, especially in strobe mode which may cause seizures in individuals with photosensitive epilepsy.
- Operating in high-powered modes for a long time may cause the flashlight to heat up, which is normal.
- Ensure proper installation of the battery with the positive end facing the flashlight's head.
- Unscrew the tailcap half a turn to prevent unwanted activation during transport and to avoid draining the battery while in standby.
- Avoid hitting or dropping the flashlight.
- Disassembling the sealed head can damage the flashlight and void the warranty.
- Use high-quality brand batteries to prevent damage by leakage that can void the warranty.
- If the flashlight will not be used for an extended period, remove the battery to prevent self-discharge or accidental activation during storage or transportation.
- Every 6 months, wipe threads with a clean cloth followed by a thin layer of silicone grease to maintain proper waterproofness.
- Replace worn-out o-rings to maintain waterproofness.

FAQ

- **Q:** What should I do if the flashlight enters lockout mode?
- **A:** When the flashlight turns off after 1 minute, it will automatically enter lockout mode. Double-click the switch to unlock the flashlight.
- **Q:** What are the battery level indicators?
- **A:** Green indicates 75%-100% remaining power, Flashing Green indicates 50%-75%, Red indicates 25%-50%, and Flashing Red indicates critical power (less than 25%). Please replace or recharge the battery when in Flashing Red status.
- **Q:** How can I prevent unwanted activation during transport?
- **A:** Unscrew the tailcap half a turn to prevent unwanted activation during transport and to avoid draining the battery while in standby.

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

NOTE: AUTOMATIC LOCKOUT FEATURE, when the flashlight turns off after 1 minute, it will automatically enter lockout mode. Double-click the switch to unlock the flashlight.

Compared to SD09 with SD09L, the SOFIRN diving flashlight SD09 is the smaller and more compact version designed to be easily portable, utilizing a single 21700 battery. With the ability to provide an astounding 3400 lumens of bright light, this diving flashlight is perfect for exploring the depths of the ocean. It's capable of functioning at depths of up to 100m, making it the ideal companion for deep-sea diving and underwater exploration. With its sleek and durable design, this diving flashlight is built to withstand the toughest of environments.

ANSI/NEMA FL1 Chart

Mode	Low	Medium	High	Strobe
Luminous Flux [lm]	500	1200	3400	3400

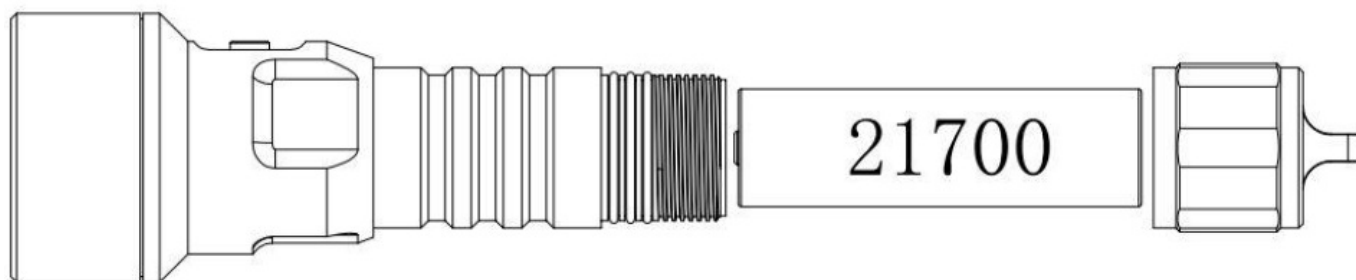
Runtime [h]	9	4.75	2.25	–
Beam Distance [m]	140	235	375	–
Peak Intensity [cd]	1433	13783	35100	–
Impact Resistance	1m / 3.28 ft.			
Water Resistance	IPX8			
Notes	The above-mentioned parameters are based on tests according to international flashlight testing standards (ANSI/NEMA FL1) using a 4,000mAh 21700 Li-ion battery in our laboratory. Results may vary with different batteries or under different environmental conditions.			

Specifications

- Emitter: 3 * LUMINUS SST-40 LEDs with a lifespan of 50,000 hours
- Operating voltage: 3V – 4.2V
- Battery options: 1x 21700 rechargeable lithium-ion battery
- Size: 48 mm × 26 mm × 142.6 mm
- Weight: 203 grams (without battery)
- Flashlight body: A6061-T6 aluminum alloy.
- Toughened mineral glass lens
- Water resistance i.a.w. IPX8
- Boost driver
- Standby Current: ≤30uA.
- Mode Memory: the light memorizes the last brightness level used. (Low/Med/High).
- Reverse polarity protection from improper battery installation.
- Low voltage warning: When the battery voltage is lower than 2.8V, the LED indicator will start to flash red. Please recharge the flashlight or insert new batteries.

Battery Specifications

Battery Type	Dimension & Quantity
Rechargeable lithium-ion battery	21700 x 1



Battery Installation

- Before first use, please unscrew the tail cap and remove the insulating sticker.
- If the battery needs to be replaced, please make sure that the positive end of the new battery faces the flashlight's head when you put the battery in.

Battery Level Indicator

The indicator shows the power status for 5 seconds after turning SD09 on.

- Green = remaining battery power is 75%-100%.
- Flashing Green = remaining battery power is 50%-75%.
- Red = remaining battery power is 25%-50%
- Flashing Red = critical power (less than 25%), please replace or recharge the battery as soon as possible.

Operation Instructions

- ON/OFF: Press and hold the switch to turn the light on/off.
- CHANGE BRIGHTNESS LEVEL: When the flashlight is on, single-click the switch and it will start from the present brightness level, and cycle through Low, Medium, and High modes. The mode is selected when the switch has been released.
- DIRECT ACCESS TO STROBE MODE: When the flashlight is on/off (not in lock mode), quickly double-click the switch to activate Strobe mode, and single-click again to return to the previously used mode.
- LOCK/UNLOCK: When the flashlight is off, 2 fast clicks on the switch to lock the flashlight. LED blinks twice to signal that the light is in lock mode. And two clicks on the switch to unlock it returning to the previously used mode. You can only access to momentary-low by holding the switch while being locked. The LED will flash twice to indicate the flashlight is in lock mode when you try other operations.

Safety Instructions

- SD09 is a powerful flashlight. Never point it directly at a person, animal or moving vehicle. Doing so could cause retinal damage. Please do not allow children to play with it. Strobe mode may cause seizures in persons with photosensitive epilepsy.
- Operating SD09 for a long time in high-powered modes will quickly heat up the flashlight. This is normal.

- Pay close attention to the proper installation of the battery. Always check that the positive end of the battery faces the flashlight's head.
- Please 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.

Troubleshooting and Maintenance

- Disassembling the sealed head can damage the flashlight and void 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.
- 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 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.

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Please contact us if you have any questions

If your product is defective please contact us for replacement within the 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

Documents / Resources

Sofirn SD09 Manual



SD09, SD09L, SD09 Diving Flashlight, SD09, Diving Flashlight, Flashlight

Model	SD09	SD09L	SD09	SD09
Beam Distance	100m	100m	100m	100m
Beam Diameter	100m	100m	100m	100m
Runtime	100h	100h	100h	100h

[Sofirn SD09 Diving Flashlight](#) [pdf] Instructions
SD09, SD09L, SD09 Diving Flashlight, SD09, Diving Flashlight, Flashlight

References

- [sofirn](#) [sofirn](#)
- [User Manual](#)

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