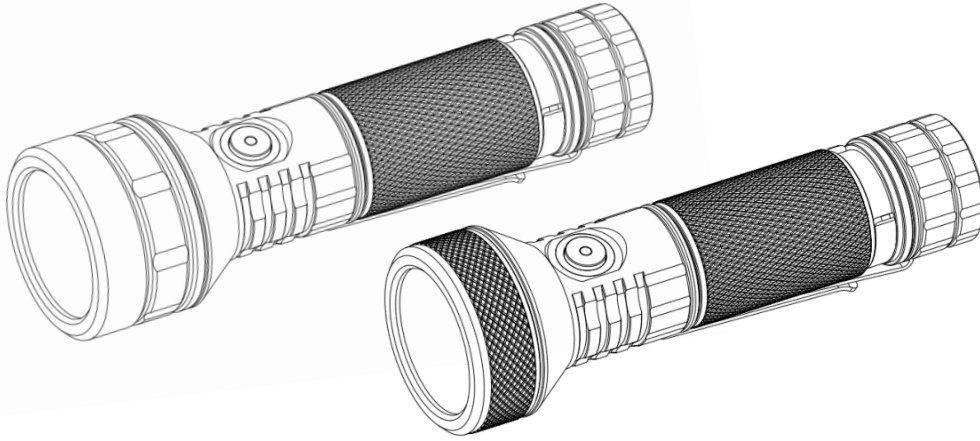


Sofirn IF22/IF22A Manual



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

Official Sofirn Store



<https://www.sofirnlight.com>

Official Sofirn Store on AliExpress



<https://sofirn.aliexpress.com/store/2933049>

Sofirn's **IF22** and **IF22A** are powerful and versatile EDC flashlights. They utilize a powerful Luminus SFT-40 LED with up to 2100 lumens to serve multiple applications both in conventional and professional home and outdoor scenarios. They are powered by one 21700 battery, can be recharged via USB-C, work as a power bank and feature a simple but elaborated dual mode user interface with both stepped modes and stepless ramping for your convenience. Moreover, IF22 and IF22A offer 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
		Luminous Flux [lm]	1 - 2100				
	Runtime [hrs]	depending on ramping level					-
Group 2 Stepped Modes	Mode	Moon	Low	Medium	High	Turbo	Strobe
	Luminous Flux [lm]	1	30	320	1000	2100	2100
	Runtime [hrs]	> 400	41.4	5.5	2.25	1.8	-
	IF22 Beam Distance [m]	-	89	267	501	683	-
	IF22 Peak Intensity [cd]	-	1987	17875	62875	116625	-
	IF22A Beam Distance [m]	-	96	283	519	697	-
	IF22A Peak Intensity [cd]	-	2310	20008	67250	121333	-
Impact Resistance		1m / 3.28 ft.					
Water Resistance		IPX-8 (up to 2 meter under water, not for diving)					
Charging/Discharging Specification		USB-C port, input/output DC 5V 3A, type C-C cable support					
Notes		The above mentioned parameters are based on tests according to international flashlight testing standards (ANSI/NEMA FL1) using one 4000mAh 21700 Li-ion battery in our laboratory. Results may vary with different batteries or under different environmental conditions.					

Specifications

- ❖ **Emitter:** 1x Luminus SFT-40 LED with a lifespan of up to 50.000 hours
- ❖ **Battery options:** 1x 21700 Li-Ion battery
- ❖ **Operating voltage:** 2.8V - 4.2V
- ❖ **USB-C port:** 5V 3A max charging / discharging, supporting type C to type C cables
- ❖ **Dimension:**
IF22: 136.7 mm (length) × 42 mm (head diameter)
IF22A: 127.1 mm (length) × 42 mm (head diameter)
- ❖ **Weight:**
IF22: 132 grams (without battery)
IF22A: 120 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.
- ❖ **Type of optic:**
IF22: aluminum alloy reflector
IF22A: 5° TIR plastic lens
- ❖ **Lens:** Toughened mineral glass lens - scratch and wear resistant
- ❖ **Water resistance:** i.a.w. IPX-8 (up to 2 meter under water, not for diving)
- ❖ **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 3.0V, the LED indicator in the side switch will start to flash rapidly. Please recharge the battery.
- ❖ **Low voltage protection:** The flashlight turns off automatically if the voltage gets critical. Please recharge the battery.
- ❖ **Advanced Temperature Regulation (ATR) technology:** As the temperature rises beyond 55°C, IF22 and IF22A are programmed to automatically step down and step up the brightness to prevent overheating.

Safety Instructions

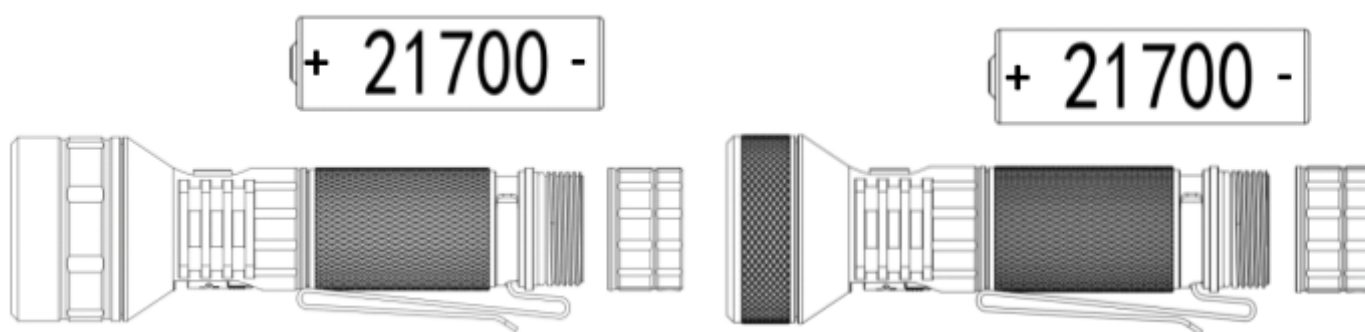
- ❖ IF22 and IF22A are powerful flashlights. Never point the beam directly at a person, animal or moving vehicles. Doing so could cause retinal damage. Please do not allow children to play with them. Strobe mode may cause seizure in persons with photosensitive epilepsy.
- ❖ Operating the flashlight for a long time in Turbo or High mode will warm it up. This is normal.
- ❖ Recharging external devices by the flashlight is dependent on the flashlight's battery capacity and charge state. Make sure to use a full battery if you want to use the discharge function.
- ❖ 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.

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.

IF22 battery installation

IF22A battery installation



Power Indicator

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

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

Charging / Discharging (power bank mode)

IF22 and IF22A offer a USB-C port for convenient recharging of its internal 21700 battery but also to work as a power bank to recharge external device, e.g. a smartphone. Both models support state of the art type C to type C cables (NOT INCLUDED). It takes approximately 2.5 hours to fully charge 4000mAh battery (it takes longer if you buy it with 5000mAh). For charging the battery, connect the USB-port with the included USB-A to USB-C cable and use a USB power adapter (not included) with up to 5V 3A. While charging, the LED power indicator flashes red. Once finished the indicator will turn green to indicate a full battery. For discharging (power bank mode), connect the flashlight with the external device, using a proper USB-C to USB-C cable (NOT INCLUDED). Always make sure that the battery in flashlight is sufficiently charged. If a low battery is detected, discharge function will be disabled and the LED power indicator will flash red.

Operation Instructions

General operation: Single click to turn ON or OFF. Press and hold to change brightness. Double click to activate Turbo mode from OFF or ON. While in Turbo mode, single click to return to the previously used mode. From OFF, hold 1 second to turn on in Moon mode, release and hold again to increase brightness. Triple click to activate Strobe mode from ON or OFF. While in Strobe mode, single click to return to the previously used standard mode, double click to activate Turbo.

Group 1: Stepped modes: Press and hold to cycle through stepped modes (Low – Medium – High)

Group 2: Ramping: Press and hold to change brightness steplessly (“ramp”). Ramping changes its direction when the button is being pressed again within 1,5 seconds. The light flashes once when it reaches the lower or upper end of the ramp.

Toggle between Group 1 and Group 2: From on, 4 fast clicks to cycle between both mode groups. The change will be confirmed by two short flashes.

Electronic Lockout: IF22 and IF22A come with a lockout function to prevent accidental activation, e.g. in one’s pocket or backpack. From off, 4 fast clicks to activate lockout. Another 4 fast clicks to deactivate lockout again and return to the previous mode setting. When the light is locked, the main LED only blinks two times to show the status of being locked. While in lockout mode, hold the side switch to use Moon mode.

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