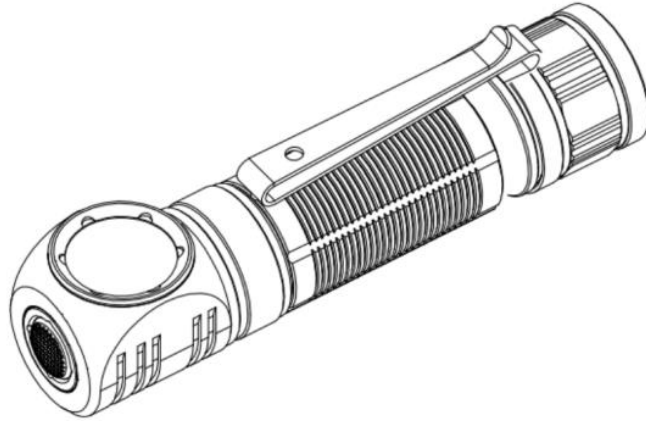


Sofirn HS40 Manual



Thank you for purchasing Sofirn products.

Contact us@sofirnlight.com or eu@sofirnlight.com if you need assistance.

The **HS40** is a powerful headlamp as well as a versatile tool lamp. It utilizes a powerful SST40 LED to provide a nice beam for working, running, hiking and more. Powered by one 18650 battery and featuring a simple but elaborated user interface, HS40 is your reliable partner for every day use.

Safety Instructions

- ❖ HS40 is a powerful headlamp. 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 headlamp for a long time in Turbo or High mode will warm it up. And to protect it from over-heating, it steps down lower mode automatically. This is normal.
- ❖ HS40 is intended to be used with an 18650 rechargeable battery.
- ❖ When installing the battery, make sure the anode (+) side always faces towards the head/LED.
- ❖ Unscrew the tail cap half a turn to avoid unwanted activation during transport. It also prevents the battery from draining while the headlamp is in standby.
- ❖ Avoid hitting or dropping the headlamp.

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ANSI/NEMA FL1 Chart

Group 1 Stepped Modes	Mode	Moonlight	Low	Medium	High	Turbo	Strobe	SOS	Beacon
	Luminous Flux [lm]	1	10	300	800	2000	2000	300	2000
	Runtime [hrs]	400	220	8	2	2.5			
	Beam Distance [m]	-	21	68	129	175	-	-	-
Peak Intensity [cd]	-	107	1150	4137.5	7625	-	-	-	
Group 2 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
Impact Resistance		1m / 3.28 ft.							
Water Resistance		IP68 (up to 2 meter under water, not for diving)							
Charging Specification		USB-C port, input DC 5V 2A							
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.							

Specifications

- ❖ Emitter: 1 x SST40 LED with a lifespan of up to 50,000 hours
- ❖ Battery: 18650 battery
- ❖ Operating voltage: 2.7 V - 4.2 V
- ❖ Dimension: 111 mm (length) x 26 mm (head diameter) x 25 mm (body diameter)
- ❖ Weight: 65 grams (without battery, without headstrap)
- ❖ Headlamp 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
- ❖ Automatic Stepdown: Turbo mode steps down to High mode automatically to prevent overheating.

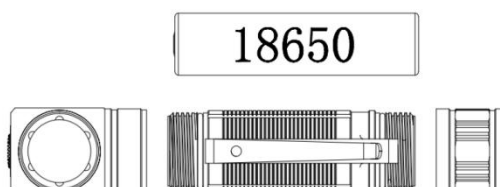
Circuit Protection

- It's protected from improper battery installation.
- When it's too hot at Turbo or high mode, it automatically steps down to lower mode to prevent overheating.
- It automatically steps down to lower modes when the 18650 battery does not have enough power.
- It turns off when voltage is lower than 2.7V. Please replace or recharge the battery as soon as possible.
- Low power indicator: the headlamp tells battery status, if battery doesn't have enough power, headlamp stays on lower mod

Battery Specification

Battery Type	Dimension & Quantity	Nominal Voltage	Compatibility
Rechargeable lithium-ion battery	18650 x 1	3.7 V	Yes

Battery Installation: Unscrew the tailcap to insert one 18650 battery with the anode side (+) towards the head, then screw the tailcap back on.



Operation Instructions

The switch controls all headlamp functions as follows:

Group 1 (Stepped Mode)

ON/OFF: One click to turn on/off

Change brightness: While on, press and hold to cycle through the modes: Low/Med/High

Shortcut to Moonlight: While off, hold 1 second to moonlight. Release and hold again to select standard levels: Low/med/High

Turbo: No matter while on or off, double click to Turbo, another click to previous mode.

Strobe: No matter while on or off, triple clicks to Strobe, double click to cycle through Strobe-SOS-Beacon. One click to previous mode

Electronic Lockout:

HS40 comes with a lockout function to prevent accidental activation, e.g. while off, 4 fast clicks to lock the lamp, it blinks twice to indicate locked. You can only use moonlight by holding the switch while being locked. Another 4 fast clicks to deactivate lockout. If you insert USB cable to charge it, this is another way to deactivate lockout.

Toggle between Group1 and Group2:

While on, 4 clicks to change from Group1 to Group2, and vice versa.

Group 2 (Ramping Mode)

ON/OFF: One click to turn on/off

While on, press and hold to change brightness steplessly between Moon and Turbo. Press again within 1.5 seconds to change the direction. The light flashes once when it reaches highest/lowest level.

Other functions work the same as in Group1

Troubleshooting and Maintenance

- ❖ Disassembling the sealed head can damage the headlamp and voids the warranty.
- ❖ Sofirn Ltd. recommends using high-quality brand batteries. Damage by battery leakage voids the warranty.
- ❖ Remove the battery if the headlamp 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 headlamp. 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 headlamp 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.

Please contact us if you have any questions.

If your product is defective please contact us for replacement within warranty period

