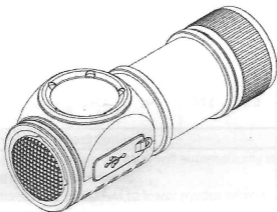


Sofirn HS10 Manual



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The **HS10** is a powerful mini headlamp as well as a versatile tool lamp. It utilizes a powerful LH351D LED to provide a nice beam for working, running, hiking and more. Powered by one 16340 battery and featuring a simple but elaborated user interface, HS10 is your reliable partner for every day use.

ANSI/NEMA FL1 Chart

Group 1 Stepped Modes	Mode	Moon	Low	Medium	High	Turbo	Strobe/SOS/Beacon
	Luminous Flux [lm]	1	50	200	500	1100	1100/500/1100
	Runtime	150h	7h 14min	1h 47min	1h 13min	55min	-
	Beam Distance [m]	5	27	54	84	129	-
	Peak Intensity [cd]	6.5	177	741	1766	4133	-
Group 2 Ramping Mode	Mode	Ramping: Eco to Turbo					
	Luminous Flux [lm]	1-1100					
	Runtime [hrs]	depending on ramping level					
Impact Resistance		1m / 3.28 ft.					
Water Resistance		IPX-8 (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 800mAh 16340 Li-ion battery in our laboratory. Results may vary with different battery or under different environmental conditions. Operation temperature is 0°C - 40°C.					

Safety Instructions

- ❖ HS10 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. This is normal.
- ❖ HS10 is intended to be used with a premium 16340 rechargeable battery.
- ❖ 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 headlamp is in standby.
- ❖ Avoid hitting or dropping the headlamp.

Specifications

- ❖ Emitter: 1x Samsung LH351D LED with a lifespan of up to 50,000 hours
- ❖ Battery options: 1x 16340 Li-Ion battery
- ❖ Operating voltage: 3.0V - 4.2V (16340 battery)
- ❖ Dimension: 67.2mm (length) × 22.5mm (head diameter)
- ❖ Weight: 37 grams (without battery)
- ❖ 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.
- ❖ Fresnel Lenses - scratch and wear resistant
- ❖ Automatic Stepdown: Turbo mode steps down to High mode automatically to prevent overheating.

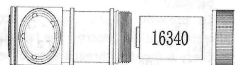
Circuit Protection

- Double-click to activate Turbo, it will automatically steps down to High mode to prevent overheating.
- It automatically steps down to lower modes when the 16340 battery does not have enough power.
- Low power indicator (16340 battery): It shuts off when voltage is lower than 2.8V. Please replace or recharge the battery as soon as possible.

Battery Specifications

Battery Type	Dimension & Quantity	Nominal Voltage	Compatibility
Rechargeable 16340 battery	16340 x 1	3.7 V	Yes, recommended

Battery Installation: Unscrew the tailcap to insert one 16340 battery with the anode side (+) towards the head, then screw the tailcap back on.



Power Indicator

The LED indicator shows the power status for 5 seconds after turning HS10 on.

Green = remaining battery power is good.

Red = remaining battery power is poor.

Flashing Red = critical power, replace or recharge battery as soon as possible.

Operation Instructions

From OFF

1. Single click to turn ON, single click again to turn OFF.
2. Press and hold to turn on Moon. Then press and hold again to cycle through stepped modes.
3. Double clicks to activate Turbo. Double clicks again to activate Moon, single click to turn OFF, press and hold to cycle through stepped modes.
4. Triple clicks to activate Strobe, double clicks again to cycle through Strobe-SOS-Beacon, then single click to turn OFF.
5. Four fast clicks to activate lockout. 4 fast clicks again to deactivate lockout and return to the previous mode setting. When the light is locked, the main LED blinks two times to show the status of being locked. While in lockout, press and hold the button to activate Moon.

From ON

1. Single click to turn OFF except Turbo and Strobe
2. Press and hold to change brightness steplessly. Release the button stopping at current light mode.
3. Double click to activate Turbo, single click to return to previous mode, press and hold to cycle through modes (Moon – Low – Medium – High).
4. Triple clicks to activate Strobe, double clicks again to cycle through Strobe-SOS-Beacon, single click to return to previous mode.
5. Four fast clicks to toggle between stepped mode and ramping mode, The light flashes twice when it changes mode.

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.

**Sofirn
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