

# LUCIFER S2X

**EN**  
USER GUIDE



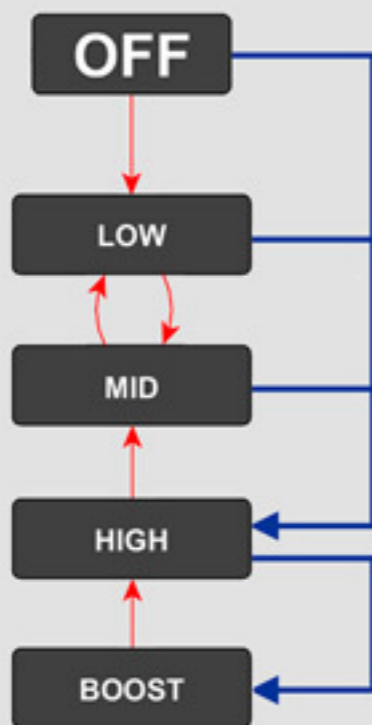
**WWW.LUCIFERLIGHTS.NET**

POWERFUL HEADLAMPS MADE IN THE CZECH REPUBLIC

ADVANCED UI

EASY UI

8-15 seconds long button press from off state



- VERY LOW 2 CLICKS
- WHITE BLINKING 3 CLICKS
- SOS 4 CLICKS

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→ long press (to 1s)

→ short click (to 350ms)

BASICS

Headlamp has got 5 lighting modes and 3 special modes (blinking, battery test, red light, red blinking).

There is no memory for the last mode and headlamp turns on everytime the same. Headlamp can be turned off with a very long press.

Headlamp has got 2 different user interface schemes - easy one and advanced one. You switch between them with 10s button press.

On the left side is advanced user interface and is set as default. Modes can be changed with short, long and very long presses. A short click lowers the mode and cycles between low and mid mode. Long press switches to a higher mode.

On the right side is easy user interface - you switch modes only with a short press by cycling modes LOW-MID-HIGH-BOOST-LOW etc.

RUNTIMES

LOWER INTENSITIES

Mode	Light output [Lumens]	Runtime [h:m]
VERYLOW	25	100:00
LOW	100	20:00
MID	225	10:00
HIGH	470	4:00
BOOST	950	1:40

INTENSITY SETTING

Switch of intensity is done by 15 second or longer button press from the off state. The headlamp blinks one or two times. One blink indicates you switched to the lower intensities. Two blinks means you switched to higher intensities.

From the factory higher intensities are set.

RUNTIMES

HIGHER INTENSITIES

Mode	Light output [Lumens]	Runtime [h:m]
VERYLOW	25	100:00
LOW	100	20:00
MID	225	10:00
HIGH	600	3:00
BOOST	1200	1:10

Runtimes are specified as minimum time in given mode when used with 3450mAh Battery. Runtimes are lowered when battery gets frozen (under 0° Celsius).



### LI-ION TECHNOLOGY

There is no need to cycle Li-Ion batteries. You can charge them anytime, you don't have to discharge them before. Battery gets naturally old from the time it was manufactured, life can be significantly prolonged.

### OVERHEATING PROTECTION

Headlamp monitors its temperature and switches to lower mode in case of overheating. Overheating can occur in high and boost mode when the headlamp is not moving.

Warning! Temperature of the headlamp body can reach up to 60°C.

### CHARGING

Battery pack should be charged with attached 4.2V wall charger. Charging of fully depleted battery pack takes 6 hours. Charger lights red during charge and green when completed. First plug charger into the mains and then battery pack to the charger!!

You can also use any bay charger which is made for charging li-ion cells. Charging end voltage must be set to 4.2V.

### STATE OF CHARGE TEST

You turn on battery test with 1 second press or longer. Headlamps use key under this paragraph to tell you the state of charge of connected battery with a series of flashes.

5 blinks = 80-100%

4 blinks = 60-80%

3 blinks = 40-60%

2 blinks = 20-40%

1 blink = 0-20%

remaining  
charge

### MAXIMUM PROLONGING OF BATTERY LIFE

Do not fully discharge battery if you don't need to. Do not store batteries fully charged or fully discharged. We recommend 50-60% charge for long time storage. Disconnect connector everytime during transport or if you don't use it.

Do not dispose batteries to temperatures under 0° Celsius. In cold, place them under your clothes or into the pocket.

When batteries get frozen limit use to lower modes to minimize damage.

### BASIC SAFETY

DO NOT USE DAMAGED BATTERIES!

KEEP BATTERIES OUT OF HIGH TEMPERATURE (inside car in direct sun, near the fire etc.)

DISCONNECT CONNECTOR DURING TRANSPORT! (prevent accidental turn on)

CHARGE BATTERIES WITH APPROPRIATE CHARGER ON SAFE PLACE UNDER YOUR SUPERVISION!

DO NOT CHARGE BATTERIES WITH TEMPERATURE UNDER 5°C. Wait until they have room temperature.

THIS LIGHT IS NOT A TOY!  
kids are allowed to use it only if they know how

DO NOT LIGHT INTO EYES!  
can damage your sight.

KEEP THE HEADLAMP TURNED DOWN ON A ROAD!  
do not blind drivers in traffic

HEADLAMP CAN HEAT UP TO 60°C!



## BATTERIES

Only **protected li-ion 18650 cells** supposed to be used in the battery tube.

Be careful when inserting batteries into battery tube or in a bay charger, not to damage its surface.

Watch out for **correct polarity** as indicated in the picture below.

## BATTERY TUBE

**When headlamp is not used or transported,** turn the tube cap half a turn counterclockwise so the battery is disconnected from the headlamp and could not turn on accidentally. Also you prevent any battery discharging.

**For longer thread life and easy operation,** apply vazeline on threads and o-ring seal and clean these surfaces when they are dirty.



Headlamp body	CNC milled, aluminium alloy 6063, hard anodized
LEDs	1x Cree XP-L2, typ. 4500K, CRI 70, bin V6
Waterproof rating	IP66
Modes	5 modes, all constant regulated
Maximum light output	1200 lumens
Maximum runtime	100 hours
Maximum beam distance	140m
Electronics	microprocessor driven synchronous boost converter efficiency 91-96%
Protection against	overheating, opposite battery polarity
Discharge warning	at 33%, 10% and 0% remaining capacity
Quiscent current	20 uA
Supply voltage	2.5-5.5 V DC
Operation temperature – headlamp	-40 – 70°C
Operation temperature – batterypack discharging	-20 – 60°C
Operation temperature – batterypack charging	10 – 45°C

Case	plastic and aluminium openable
Battery configuration	1 cell 18650 protected
Battery type	Lithium – Ion, type 18650, only Protected
Compatible charger	4.2V, 0.5A, CCCV (constant current, constant voltage) mains charger or any bay charger for 1 li-ion battery (4.2V max. charging voltage)
Overall weight	165 gr.

# LUCIFER

## OUR MISSION

Lucifer headlamps are made and assembled in Prague, Czech Republic.

LUCIFERLIGHTS s.r.o  
SLUZSKA 779/30  
PRAGUE 8  
18200  
CZECH REPUBLIC

We are focused on creating very small, tough and light-weight headlamps designed and constructed to the highest possible standards, with the highest light outputs, longest possible runtimes, excellent ergonomics and ease of use, and with all the accessories and mounts you are likely to need.

## IDEA FOR IMPROVEMENT?

We would like to hear from you and your headlamp use. Write us email and share with us your ideas. We design headlamps for people and their votes are important for us.

## SPREAD A WORD

If you are satisfied with our headlamp and want to support us, please tell your friends about us. That will help us grow and develop new lights and accessories.

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BLOG.LUCIFERLIGHTS.NET  
PETR@LUCIFERLIGHTS.NET

WWW.LUCIFERLIGHTS.NET

