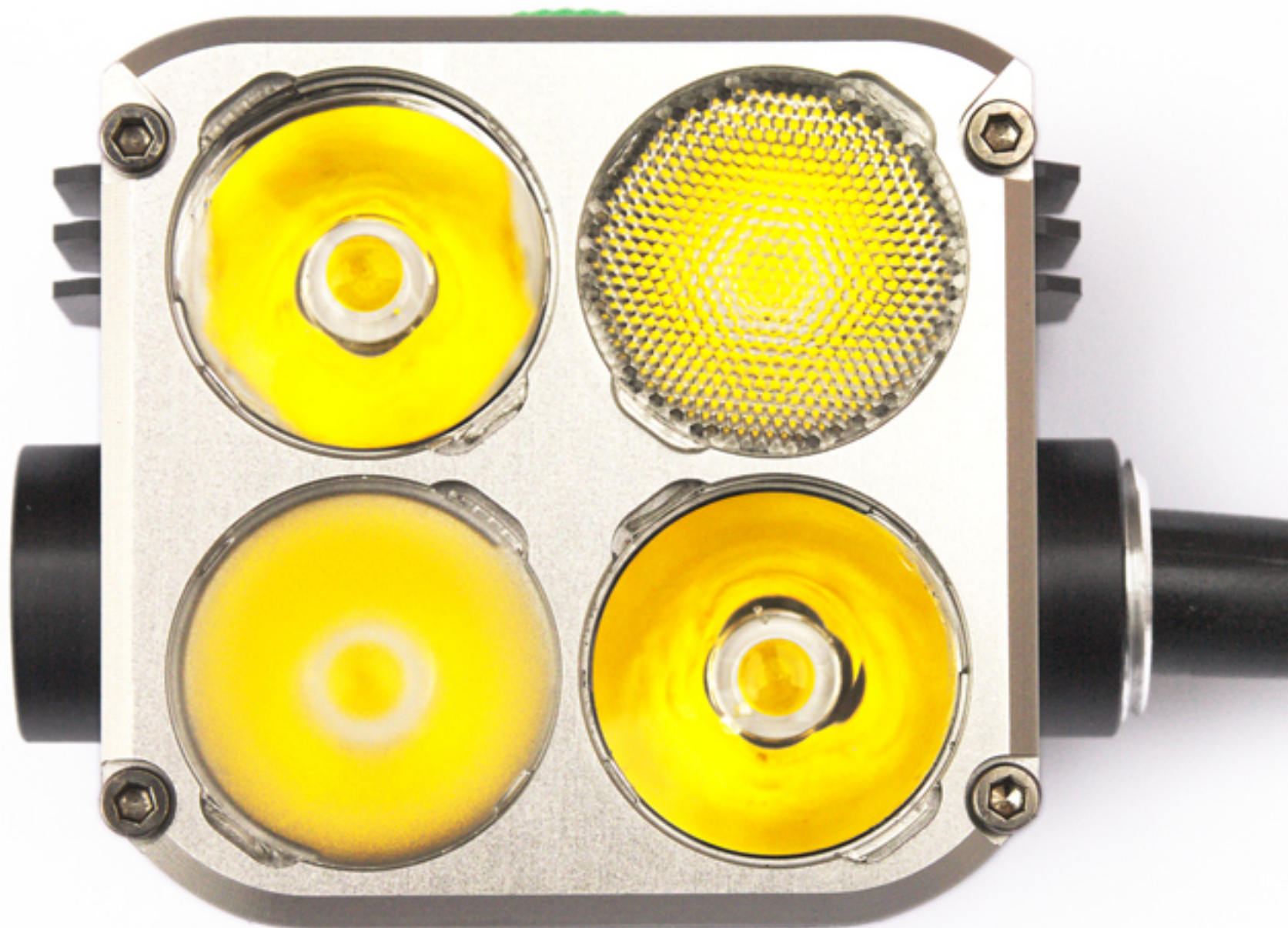


LUCIFER L+

EN
USER GUIDE



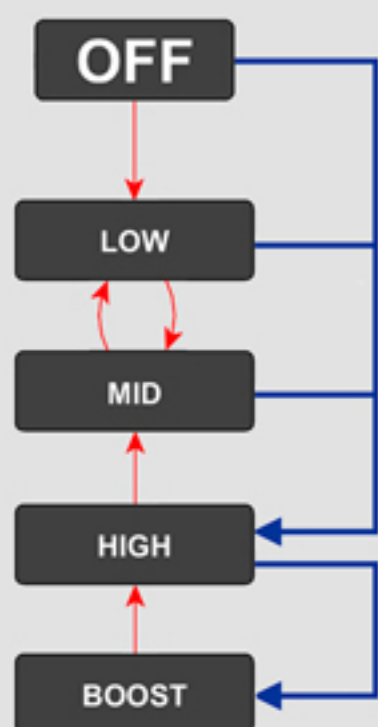
WWW.LUCIFERLIGHTS.NET

POWERFUL HEADLAMPS MADE IN THE CZECH REPUBLIC

ADVANCED UI

EASY UI

10 seconds long
button press
from off state



VERY LOW	2 CLICKS
BLINK	3 CLICKS
SOS	4 CLICKS

VERY LOW	2 CLICKS
BLINK	3 CLICKS
SOS	4 CLICKS

→ long press
(to 1s)

→ short click
(to 350ms)

BASICS

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

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 and 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

Runtimes are specified as minimum time in given mode when used with our 2-cell battery pack (23Wh) or 4-cell battery pack (46Wh). Runtimes are lowered when batteries gets frozen (under 0° Celsius).

Mode	Light output [Lumens]	Runtimes 4-cell. bat. [h:m]	Runtimes 2-cell. bat. [h:m]
VERY LOW	60	170:00	85:00
LOW	425	20:00	10:00
MID	850	10:00	5:00
HIGH	1800	4:00	2:00
BOOST	3500	1:40	0:50

DISCHARGE WARNING

Electronics monitor remaining battery charge and give 3 levels of warning, alerting the user to levels of battery discharge down to 33%, 10% or completely empty with 1, 2 or 3 blinks of the beam. Three flashes indicates that the batteries are fully discharged and headlamp can be shortly turned off.

This signalization can be slightly inaccurate, especially in highest modes. The most accurate signalization gives STATE OF CHARGE TEST.

When batteries are not able to supply enough energy, headlamp switches to lower modes. When its finally switched to the lowest mode, headlamp no longer regulate brightness and light diminishes over a long time and then shuts off completely.

STATE OF CHARGE TEST

You turns on battery test with a very long press. Headlamps use key under this paragraph to tell you the state of charge of connected batteries with a series of flashes.

5 blinks = 80-100%
4 blinks = 60-80%
3 blinks = 40-60%
2 blinks = 20-40%
1 blinks = 0-20%

remaining
charge

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.

MAXIMUM PROLONGING OF BATTERY LIFE

Do not fully discharge battery if you don't need to. **Do not store battery pack 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 battery pack under your clothes or into the pocket.

When battery pack gets frozen limit use to lower modes to minimize damage.

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 or compatible li-ion 8.4V charger. Charging of fully depleted battery pack takes 6 hours. Charger lights **red during charge** and **green when completed.**



BASIC SAFETY

DO NOT USE DAMAGED BATTERYPACK!

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

DISCONNECT CONNECTOR DURING TRANSPORT! (prevent accidental turn on)

CHARGE BATTERYPACK WITH SUPPLIED CHARGER ON SAFE PLACE IDEALLY UNDER YOUR SUPERVISION!

DO NOT CHARGE BATTERYPACK WITH TEMPERATURE UNDER 5°C. Wait until it have the 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!

HEADLAMP

Headlamp body	CNC milled, aluminium alloy 6063, hard anodized
LEDs	4x Cree XP-L2, typ. 4500K, CRI 70, bin W3
Waterproof rating	IP66
Modes	7 modes, all with constant current regulation
Maximum light output	3500 lumens
Maximum runtime	170 hours
Maximum beam distance	290m
Electronics	microprocessor driven synchronous boost converter efficiency 95-98%
Protection against	reverse polarity, overheating
Discharge warning	at 33%, 10% and 0% remaining capacity
Quiscent current	42 uA
Supply voltage	5-10V DC
Operation temperature – headlamp	-40 - 70°C
Operation temperature – batterypack discharging	-20 – 60°C
Operation temperature – batterypack charging	10 – 45°C

Total weight (4-cell Batterypack)	381 gr.
Total weight (2-cell Batterypack)	258 gr.
only 4-cell. Batterypack	240gr.
only 2-cell. Batterypack	135gr.
only headlamp body	78 gr.
headlamp body + headstrap	141 gr.

BATTERYPACK

Battery Case	plastic hardcase, foiled or soft rubber
Battery Configuration	4 cells in 2S2P configuration
Battery Type	Lithium – Ion, typ 18650
Manufacturer	Samsung INR18650-35E
Voltage	every cell nominal 3.6V, charging 4.2V
Protection against	overdischarge, overcharge, short-circuit
Quiscent current	4 uA
Charger	8.4V, 1.5A, CCCV (constant current, constant voltage)



LUCIFER

LUCIFERLIGHTS s.r.o
SPORICKA 1135
PRAGUE 8
18400
CZECH REPUBLIC

OUR MISSION

Lucifer headlamps are made and assembled in Prague, 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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