

LUCIFER

ULTRA

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USER GUIDE



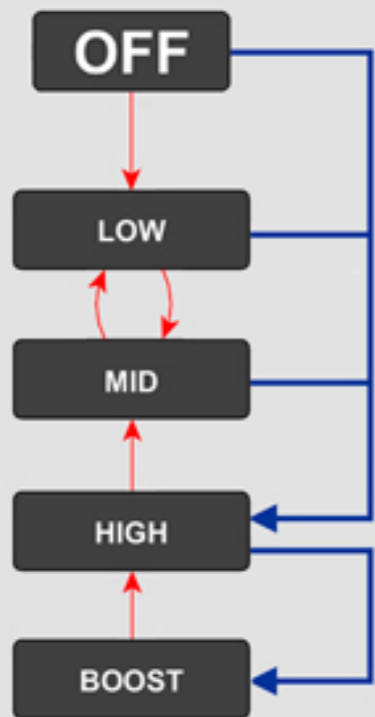
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POWERFUL HEADLAMPS MADE IN THE CZECH REPUBLIC

ADVANCED UI

EASY UI

5-10 seconds long button press from off state



- VERY LOW 2 CLICKS
- ULTRA LOW 3 CLICKS
- BLINK 4 CLICKS

- VERY LOW 2 CLICKS
- ULTRA LOW 3 CLICKS
- BLINK 4 CLICKS

→ long press (to 1s)

→ short click (to 350ms)

BASICS

Headlamp has got 6 lighting modes and 2 special modes (blinking, 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 or longer 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.

INTENSITY SETTING

Switch of intensity is done by 10 seconds 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.

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 could be less accurate 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.

RUNTIMES LOWER INTENSITIES

Mode	Light output [Lumens]	Runtime 8-cell. bat. [h:m]	Runtime 4-cell. bat. [h:m]
ULTRALOW	10	760:00	380:00
VERYLOW	150	100:00	50:00
LOW	500	40:00	20:00
MID	1200	16:00	8:00
HIGH	2700	6:00	3:00
BOOST	5700	2:30	1:15

RUNTIMES HIGHER INTENSITIES

Mode	Light output [Lumens]	Runtime 8-cell. bat. [h:m]	Runtime 4-cell. bat. [h:m]
ULTRALOW	10	760:00	380:00
VERYLOW	250	60:00	30:00
LOW	800	24:00	12:00
MID	1800	10:00	5:00
HIGH	4000	4:00	2:00
BOOST	8000	1:30	0:45

Runtimes are specified as minimum time in given mode when used with our 4-cell battery pack (48Wh) or 8-cell battery pack (96Wh). Runtimes are lowered when batteries are under 0°C.

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 every-time during transport or when you don't use headlamp for longer period.

Do not dispose batteries to temperatures below 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.

Do not charge battery pack below freezing point 0°C!

STATE OF CHARGE TEST

You turn on battery test with **1 second press or longer** when headlamp is turned off. Headlamps use key under this paragraph to tell you the state of charge of inserted battery 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

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 65°C.**

CHARGING

Battery pack should be charged with attached 16.8V 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!!



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 0°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 and sandblasted
LEDs	9x Cree XP-L2, 4500K, typ. CRI 70, bin W3
Waterproof rating	IP66 – withstand immersion to 1m for 30 min.
Modes	7 modes, all with constant current regulation
Maximum light output	8000 lumens
Maximum runtime	760 hours
Maximum beam distance	480m
Electronics	microprocessor driven synchronous boost converter efficiency 92-96%
Protection against	overheating
Discharge warning	at 33%, 10% and 0% remaining capacity
Quiscent current	50 uA
Supply voltage	8-17V DC
Operation temperature – headlamp	-40 - 70°C
Operation temperature – batterypack discharging	-20 – 60°C
Operation temperature – batterypack charging	10 – 45°C

Total weight (8-cell Batterypack)	689 gr.
Total weight (4-cell Batterypack)	428 gr.
only 8-cell. Batterypack	504gr.
only 4-cell. Batterypack	243gr.
only headlamp body	143 gr.
headlamp body + headstrap	185 gr.

BATTERYPACK

Battery Case	foiled or hardcase
Battery Configuration	8 or 4 cells in 4S2P or 4S1P 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	16.8V, 1A, CCCV (constant current, constant voltage)



LUCIFER

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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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