



# Kaa 1 700



English

## **Congratulations on your choice of LEDX headlamp**

The lamp has been developed with a focus on bright light, low weight and several different fields of use.

Be careful; the light is very powerful, do not look straight into the lamp when turning on the light. Due to the high power it also emanates much warmth. Please make sure that air can circulate freely around the lamp, this is extra important when used at the highest setting.

The lamp provides a broad light close to the body and a very long distance light. It can be controlled in three power levels which give around 20%, 40% and 100%.

The lamp is fitted with heat sinks that keep the temperature low inside the lamp case. This contributes to a stronger light since the light output diminishes with a rise in temperature.

The head light can be complemented with a small backup battery that attaches to the back of the headgear. It provides light for about 80 minutes on the lowest effect.

The batteries are Li-Ion or Li-pole, have no memory and must not be discharged before charging. At delivery, the batteries are only partly charged, charge therefore the batteries before using the lamp for the first time. Be sure to use the correct charger for each battery.

Disconnect the battery connector when not in use.

## The lamp case

Connect the battery to the lamp case. Be careful to fit the white markings on the contacts to each other; if they are incorrectly fitted and forced together the contact pins might break.



Right



Wrong

The switch is placed at the bottom of the lamp case. Light the lamp by pressing the switch until the lamp turns on (1-3s). The lamp starts on the lowest effect, default at 20 %, use short clicks to up the effect. Turn it off by pressing the switch until it turns off.

The lamp has a heat protection; if the lamp becomes warmer than 75 ° C it slowly decreases the amount of light in small steps. When the temperature drops it automatically increases the light again. If you use the lamp indoors it will adjust the light after the lamp temperature. For outdoor use, the light needs to be in motion to give 100%. There is an emergency built-in, if the lamp has been covered or for any other reason reached 95 ° C, the lamp turns off completely.

The lamp case can easily be removed from the headgear by lightly press the top part of the attachment plate and simultaneously pull the lamp upwards.

The lamp is water resistant, but should not be used underwater.

## Batteries

**The main battery** is a Li-Ion battery; these are characterized by a high capacity and low self-discharge. It is carried conveniently in a rear harness, waist or in a pocket. It is water resistant but should not be immersed in water. At delivery, the battery is partly charged, it must therefore be charged before using the lamp. Make sure you use the correct charger when charging the battery.

**The back up-battery** (option) is a Li-Pol battery with high capacity and low self-discharge. It is placed in the battery holder on the back of the head gear. The back-up battery is completely waterproof. It gives light for about 80 min with 20 % power. The lamp recognizes that the back-up battery is connected and you cannot up the effect.

**Both batteries** must be kept cool and dry, if you store the battery in the refrigerator, place it in an airtight box or plastic bag to prevent condensation on the battery. If the battery will remain unused for a long time, eg over the summer, leave the battery half charged and in a cool place. If you do not use the battery during a long time, you should charge it once a year to prevent that the voltage drops to a dangerous level. Never leave the battery so that it is exposed to extreme heat, such as in a car on a hot summer day. This would quickly shorten its life.

## Battery indicator

A battery indicator in 4 steps is built into the lamp. To activate the battery indicator; first turn on the lamp, then hold the switch for about 4 seconds. You will receive a number of flashes that tell you how long you can use the light before it's over, see table. Works only on the main battery, not on the back-up.

The times are approximates and are affected by battery condition and temperature. When the battery is almost depleted the lamp is automatically reduced to the lowest power. Then there are about 60 minutes left on low power before the battery is completely depleted. If you have drained the battery so much that it goes down to the 8% level, you should charge the battery as soon as possible after using the lamp.

Blinks	Effect 20%	Effect 40%	Effect 80%	Effect 100%
4	10 h	5 h	2 h 30 min	2 h
3	5 h	2 h 30 min	1 h 15 min	1 h
2	2 h 30 min	1 h 15 min	35 min	30 min
1	< 2 h 30 min	< 1 h 15 min	< 35 min	< 30 min

### **Follow this advice you give your battery a long life.**

Charge the batteries with the included chargers. Be sure to use the correct charger for each battery.

The main battery is charged with the larger charger and takes about 4 hours to charge fully. Do not discharge the battery before recharging.

The backup battery is charged with the little charger and takes about 3 hours to recharge. Do not discharge the battery before recharging.

The battery should be at room temperature when charging. The LED on the charger lights red when charging and green when the battery is fully charged, it then goes over to maintenance charging. Don't leave the charger plugged in when not necessary, but disconnect it as soon as you see that the battery is charged. When you unplug the charger from the socket also separate the charger and the battery, otherwise the charger will slowly discharge the battery.

## **Programming**

The lamp can be programmed and adapted to better suit your own needs. Click the switch 4 times rapidly to get to the programming menu - the lamp will light up. Click the switch one short click at a time with the amount of blinks that correspond to the program you have selected, for example after three clicks the lamp will blink three times in a row. When you have reached the program you want simply exit the programming menu by pressing the switch until the lamp shuts off. Do a test to make sure it is the program you wanted.

<b>Clicks</b>	<b>Program</b>	<b>Effect 20%</b>	<b>Effect 40%</b>	<b>Effect 80%</b>	<b>Effect 100%</b>	<b>Blinks</b>
<b>1</b>	1	x	x	x		1
<b>2</b>	2		x	x	x	2
<b>3</b>	3		x		x	3
<b>4</b>	4	x	x	x	x	4
<b>5 (default)</b>	5	x	x		x	5

## Headgear

The headgear is adjusted over the head and on the right-hand side with a buckle.



Attach the cable through the front strap when you have the battery mounted on the headgear. If you have the battery on your back or in a pocket, there is another strap at the back of the headband that you can use.

The battery is "snapped" firmly onto the hard Velcro, push until you hear a "click". Remove the battery by pulling it off.

## Specification:

Lamp housing with 82 LED Cree XM-L 2 and 2 different types of lenses. The lenses and the reflector spreads the light between 13° - 29° FWHM.

## Weight:

Lamp housing 43 g

Lamp housing with the headgear of 90 g

Lamp housing with headgear and back-up battery 132 g

Lamp housing with headgear and battery 302 g

## Battery times:

These show approximately how long the battery can be expected to last on each level. The times may vary depending on the condition and temperature of the battery.

Effect	Lumen max	Battery time
100 %	1 500 lm	2 h
80 %	1 275 lm	2 h 30 min
40 %	750 lm	5 h
20 %	350 lm	10 h

When the battery is almost depleted, it lowers to 20 % power and gives light for around another hour.

## Backup-batteri:

350 lm for 80 min

## Warranty

1 year warranty against manufacturing defects on LEDX Kaa 1 500

Connect only the supplied LEDX batteries to the lamp.

Only charge batteries with the supplied charger from LEDX.

Make sure you are using the correct chargers for the main and back up-battery.

The lamp housing is sealed and cannot be disassembled without destroying the lamp.

There is no warranty if the product is modified in any way or subjected to large external force

## Contact information

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