

LUPINE®

LIGHTING SYSTEMS



X-BEAM R16

Instruction Manual

(Read before use!)



Content of package:

16 W Lighting System (16 W SR 12 °) with PCS V3.3, mounted on head belt
Ni-MH rechargeable battery in soft case 4,5 Ah 7.2V
Lupine Charger "Wiesel" V2 0.8A
Velcro straps, 120 cm extension cable
Instruction Manual (this document)
Technical Information PCS V3.3

1.) READ BEFORE USE!

General:

Congratulations! You have just bought the world's brightest head lighting system.

Out of the box, the light, battery and charger are ready to use! Please read this instruction manual fully, to familiarise yourself with all the functions. Try out the system at home first, before use to prevent any surprises. For further details about using the X-Beam R to individual settings please read "*Technical Informations PCS V3.3*".

As with any other electrical device, there is a slight chance of failure at any time. Be aware, and use with caution.

Lupine accepts no liability for any injuries or other damages arising from the use of this product.

It might become hot!

The X-Beam R16 is not a simple torch. The lamp housing can become very hot, if used without airflow. Do not touch the lamp during or immediately after use.

Dazzling:

The X-Beam R16 is a powerful lighting system. Always use it with care and with respect for others (especially when mounted to a helmet). Do not look directly into the light.

Waterproof?

All components of the X-Beam R16 are waterproof and will withstand even the most extreme conditions. However it is not a diving lamp and is not suitable for use under water.

Warranty:

The 2 year warranty covers only defects in materials or workmanship. Bulbs and batteries are not covered by this warranty. Modifications to the light or improper use also voids this warranty.

2.) MOUNTING

The X-Beam R16 is supplied already mounted to the head belt. However if you wish to use the X-Beam R on a bicycle please read the mounting instructions below:

Lamp:

Mounting the lamp with the O - ring :

If you are feeling strong, use the finger hook method (see fig.1). For others, who prefer the less strenuous method, hold the O-ring with one finger, and push the lamp back until the O-ring can be secured on the hook of the lamp. (fig.2)



fig.1



fig.2

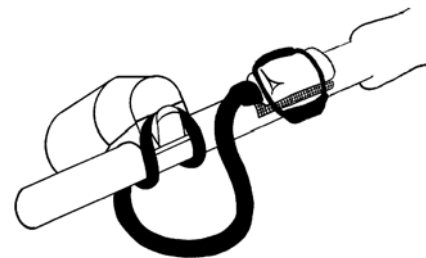


fig.3

PCS v3.3 switch :

The PCS V3.3 is designed for use on the right hand side of the lamp (see fig.3). Before attaching the velcro strip to the handlebars, ensure that the surface is free of dirt and oil. The velcro strip should be applied at room temperature, colder temperatures will cause the adhesive not to work.

For applying the O-Ring to fix the switch to the handlebar see the separate information sheet "*Technical Information PCS V3.3*".

An optional upgrade mounting bracket is also available for the switch (Peppi V3).

3.) USING THE LIGHT

Initialising:

Plug the lamp to the fully charged battery. The software of the PCS remote controller will do a self test (signalled by 2 x short flashes of three of its LEDs).

The X-Beam R16 is ready to work now. (for more details see: "*Technical Information PCS V3.3*")

Switching on:

Pressing the switch turns the lamp on. It will operate on high beam. (signalled by the blue LED on the switch).

Dimming:

Pressing the button once, after the light has stabilised, will switch the light to econo mode (the blue LED is off). By pressing the button again the light will return to high beam mode.

Switching off:

Press and hold the button for 2 seconds until the light switches off.

Controlling the remaining light time:

The electronics of the PCS V3.3 not only control the high and low beam but also protect the rechargeable battery against over-discharge and includes a low battery indicator.

Low battery is signalled by the yellow and the red LEDs.

When the yellow LED lights:	Significant amount of the capacity is gone!
Red and yellow LEDs lights:	Light will automatically switch off in a few minutes!

It is a matter of experience to interpret exactly how much time is left after the LEDs light up. Remaining burn time depends on the battery's age and capacity, the operating temperature and the capacity gauge program (Low, Middle, High; see "*Technical Information PCS V3.3*").

Hint: When the yellow and the red LEDs light up you can increase the remaining burn time with economical use of the high beam.

Reserve tank:

When the battery is almost empty (yellow **and** red LEDs have been lit for several minutes already) the lamp switches off automatically. By "double clicking" the switch it activates the reserve tank which provides some additional minutes of emergency light on low beam (6 Watt). A flashing red LED signals the reserve tank has been activated. Its duration also depends on the battery condition.

When the reserve tank is empty the light will switch off and should not be restarted.

Caution! Switching on is not possible at this point. If you unplug the battery and then re-attach it, you will damage the battery by over discharging it! Also, storing a discharged battery will cause over discharging. Recharge the battery as soon as possible!

Explanation of the LEDs:

Blue LED lights:	High beam (Maximum Power)
Green LED lights:	Low beam (Econo mode)
Green LED glows weakly	Ready to switch on again
Yellow LED lights:	Significant amount of the capacity is gone!
Yellow + Red LED light:	Rechargeable battery almost empty
	Caution! Light will switch off very soon without further notice – Stop!

Red LED flashes:

Reserve tank activated

Programming :

You can adapt the PCS of the switch to your needs. This programming is explained in detail in the "*Technical Information PCS v3.3*" and is done exclusively using the switch and LEDs.

4.) CHARGING THE RECHARGEABLE BATTERY

Connection:

Plug the Wiesel V2 to the mains and connect the rechargeable battery to it.

Charging:

Charging starts automatically, the orange LED will light to indicate that the battery is charging (this may take a few seconds!).

Keep the battery plugged to the charger until the red LED turns off and the green LED lights. The battery is now fully charged and ready for use. The battery can also be kept permanently attached to the charger during storage , this do not harm thne battery. It is not possible to damage the battery this way.

Caution!!

Wiesel V2 is designed to charge only Ni-MH rechargeable batteries. It is **not** suitable for Li-Ion batteries!

You must not use this charger with unchargeable batteries!! They will explode!!

Wiesel V2 should not be opened by the user as this will invalidate the warranty.

Explanation of the LEDs:

Orange: Charging

Green: Rechargeable battery full;

5.) CARE AND STORAGE

Lamp:

All components should be cleaned with warm soapy water, but do not use a high pressure spray or hose to wash the system. To get out all water out of all areas of the housing etc. turn the light on for a few minutes.

The battery pack is water resistant. Unlike other lighting systems, it is easy to open. If used in very wet conditions, please take the battery out of the softcase and let the case and battery dry separately.

Replacing the Bulb/Reflector:

Remove the stainless ring with your fingernail or a small flat screwdriver. Remove the glass (Warning, it is **real** glass!). Unscrew the bolt underneath the lamp holder with a screwdriver. Remove the handlebar holder and the O-ring. Push the wire into the lamp body and move the bulb-reflector out of the shell.



Pull the pins of the bulb-reflector out of the terminal block. Slide the pins of the new bulb carefully into place. Adjust the bulb-reflector as before and replace the glass and ring. Insert the holder and tighten the screw with moderate force. Your Lupine is now finished and ready to blaze the trails again.

Connectors:

In normal conditions, the connectors do not need special attention. However if you use the light in very humid and/or corrosive conditions they should be greased with the included Dutch grease. **Do not** use contact-sprays or contact-greases! They contain corrosive ingredients that will damage the connectors.

Transport:

If you are transporting your light inside a bag or box, or in a situation where the button may accidentally be pressed: **Always unplug the battery from the lamp unit.**

Storage:

Store the battery for short periods of time in a fully charged state. **Disconnect it from the lamp unit.** Charge the battery fully before using the system again. Expect to get less than full capacity from the battery for the first few times it is used after long periods of storage. Store in a cool, dry place.

6.) TROUBLESHOOTING

Failure	Caused by	Solution
Lamp does not light <u>and</u> the LEDs of the PCS <u>do not</u> flash during initialisation.	Over discharged battery.	Charge! (Also read "battery is not charging" below!
	Battery is not or not correctly plugged to the light.	Check all connections
Lamp does not light, LEDs of the PCS <u>do</u> flash during initialisation.	Bulb has worn out	Replace bulb
Burn times are too short.	Battery was not in use for a long time and has become "lazy"	After 2-3 cycles the battery will be fine again
	Battery is new.	
	Battery is very old	Replace with new battery
	Cold temperatures	Keep the battery warm
	Charger is defective	Replace Wiesel Charger
Battery is not charging: When plugged into the battery, the charger does not start charging	The electronics in the battery have swithed off the battery to prevent over discharge. The Wiesel Charger now needs a certain period of time to overcome this and start charging.	Keep the battery plugged to the charger and be patient! It may take up to 60 minutes until the Wiesel is able to start charging.

7.) TECHNICAL DATA

Lamp:

Weight complete with rechargeable battery:	350g
Capacity of rechargeable battery / Voltage:	4.5 Ah 7.2 V Ni-MH
Burn time 16 W:	2 hour + 15 minutes
Burn time 6 W:	5 hours
Charging time:	6 hours max.
Temperature range:	- 40°C - +70°C
Beam angle:	12°

Burn times may vary depending on battery's age, condition and temperature.

Charger:

Input:	100 – 240 V~, 50-60 Hz
Charging current:	0,8 A max.
Suitable batteries:	Li-Ion 2 cells 7,2 V
Display:	Control of charging by green and orange LED

IMPORTANT NOTES:

Use of this lighting system might be limited differently from country to country depending on the purpose you use it for. Please do inform yourself about possible restrictions in your country.

The mounting device and the design of the X-Beam R16 as well as of the PCS are protected by worldwide patents

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