



## MODEL LN-ELIR: EXTENDED RANGE LASER INFRARED ILLUMINATOR

Thank you for purchasing a quality LUNA product. The model LN-ELIR is a very popular accessory to your night vision unit. It provides longer viewing distance than the standard built-in IR illuminator or even optional extended range LED IR illuminators by utilizing a much more focused laser beam. The LN-ELIR is a Class-I laser, eye-safe during normal use and operation. **Please read the entire manual prior to use and please pay special attention to the **IMPORTANT** messages and **WARNINGS** in this manual.**

Please refer to the image below to identify the parts of the illuminator:



- 1 - Focusing Ring**  
**2 - ON/OFF Power Switch**  
**3 - Battery Compartment Cover**  
**4 - Push ON/OFF Button**  
**5 - Mounting Wheel**  
**6 - Horizontal and Vertical adjustments**  
**7 - Protective Cap**



To install the battery please unscrew the battery compartment cover (3) counterclockwise. It is easier to open and close the battery cover by gently holding the attachment rubber string with your finger while rotating the cover. Once the battery compartment is opened, please insert one 3V Lithium battery, CR123-type as shown on the body of the illuminator according to (+) and (-) polarity. Replace the battery compartment cover. The IR is now ready for use. **Only remove the protective lens cap (7) immediately before use!**

Please be aware that the IR illuminator has dual Power Controls: an ON/OFF Power Switch (2) and a Push Button (4). In order to turn the illuminator on, you must first rotate the ON/OFF switch (2) clockwise until you hear a slight click and then continue rotating the switch to increase the power of the illuminator. Then you need to push the ON/OFF power button (4) and the IR will light up.

**IMPORTANT: WHEN TURNING THE ON/OFF POWER SWITCH ON – ROTATE ONLY CLOCKWISE! ROTATING COUNTERCLOCKWISE IS NOT POSSIBLE AND DO NOT FORCE THE SWITCH COUNTERCLOCKWISE, AS THIS WILL ALTER THE OPERATION OF THE IR ILLUMINATOR AND WILL VOID THE WARRANTY.**

The IR is now working. To adjust the intensity of the IR beam, rotate the ON/OFF switch (2) clockwise until complete stop. To turn the illuminator off either rotate the ON/OFF switch (4) counterclockwise until you hear the same click, which indicates the IR is now OFF or simply push the ON/OFF button (4). You may choose to leave the ON/OFF switch (2) at the pre-set level and simply push the ON/OFF button to turn the illuminator ON and OFF for future operation.

**Always replace the lens cap after use!**

To adjust the width of the laser beam rotate the front focusing ring (1). Narrowing the beam would help to reach farther distance. Widening the beam would provide more comfortable viewing over shorter distances and help to illuminate wider field of view.

This illuminator is supplied with a miniature adjustment key, which you can use to adjust the horizontal and/or vertical direction of the infrared beam. To do so, you should first mount the illuminator onto your specific night vision model and turn on the unit and this illuminator. You will then see if the illuminator beam is in the center of the image, or not. If not, then insert the adjustment key into horizontal and/or vertical adjustment hole (6) and gently and slowly rotate the key while viewing the image through your night vision device until the image is aligned to your liking. **IMPORTANT: Do not use any force when rotating the key! IMPORTANT: do not try to remove the other two knobs located opposite the adjustment holes, as doing so will render the illuminator inoperable and will void any warranty claims!**

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There are 3 versions of the laser illuminator, which differ only by the type of the mounting bracket:

**Version 1 (model LN-ELIR1)** has a sliding bracket and mounts onto the following Luna Optics products: LN-PB3/LN-PB5/LN-PB7/LN-PBG1-PRO/LN-EBG1/LN-EBG1-PRO binoculars and goggles. To attach the illuminator simply slide open the metal cover on top of the night vision unit body and insert the laser IR into the opening. Once fully inside, tighten the Mounting Wheel (5) on the bracket.

**Version 2 (model LN-ELIR2) (pictured)** has a screw bracket and mounts onto the following Luna Optics products: LN-PRS25M/LN-PRS40M/LN-EM1-MS/LN-EM1-HRS/LN-EM1-PRO/LN-ERS40M/LN-ERS45M-PRO/LDN-ERS36M-PRO monoculars and riflescopes. To attach the illuminator simply find the accessory mount on the body of the night vision unit and screw in the illuminator with the help of the Mounting wheel (5).

**Version 3 (model LN-ELIR3)** has a rail type bracket, which mounts directly onto any Weaver / Picatinny rail and can be used in conjunction with any Gen-1, 2(2+) and 3 night vision device.

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### **Technical Specifications:**

Wavelength-----	775-795nm	Dimensions -----	105mm x 26mm x 39mm
Maximum power (filter on) ----	0.5mW (Class-I)	Weight -----	70g
Maximum distance (filter on) -----	150m	Operating time (max power) -----	7hrs
Viewing degree-----	0.1 – 5	Operating time (mid level power) -----	14hrs
Objective lens diameter -----	10mm	Battery -----	3V Lith. CR123

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### **Warnings:**

- 1. Do not, under any circumstance try to disassemble this device – this may result in exposure to the laser radiation level higher than Class-I and may result in permanent eye damage.**
- 2. Do not try to remove the protective filter in the front of the screen. It is installed according with the FDA rules and regulations and its forceful removal will result in violation of these rules and possible exposure to laser radiation level higher than Class-I and may result in permanent eye damage.**
- 3. Do not look directly at the laser beam through any optical product. Violation of this rule may result in eye strain and/or injury.**
- 4. Do not point the laser directly at anyone’s eyes. Do not direct the laser at a low-flying aircraft, helicopter or moving motor vehicle.**

**Failure to observe Warnings # 1 and # 2 may be in direct violation of FDA Rules and Regulations.**

**Failure to observe Warning # 4 may result in an accident, as well as possible arrest and prosecution.**