PELI™ 9430IR Rechargeable Infrared LED Flashlight



The **rechargeable 940 nm portable infrared spotlight** is designed for professionals who use night vision equipment for observation, surveillance, or operations conducted in the dark. Its head, equipped with **24 infrared LEDs**, illuminates an area or target without producing visible light comparable to that of a conventional LED spotlight.

Its narrow **7°** beam angle maximizes the range and concentration of the infrared illumination. When used with compatible night vision equipment, it improves the ability to distinguish people, obstacles, and terrain features up to approximately **69 meters**.

940 nm Infrared Spotlight for Night Vision

The **940 nm** wavelength falls within the near-infrared spectrum and is not intended to provide illumination visible to the human eye. The spotlight must therefore be used with compatible equipment: an infrared-sensitive camera, a night vision device, or a suitable observation system.

This wavelength significantly reduces the visibility of the light source in the dark. **However**, a **faint red glow may be visible directly at the LEDs**; therefore, the illuminator should not be described as completely invisible.

24 infrared LEDs and a 7° concentrated beam

The light head incorporates **24 high-intensity IR LEDs**. Their rated lifespan is approximately **50,000 hours**.

The beam angle of just **7°** concentrates the infrared energy into a relatively narrow area. This configuration is particularly well-suited when the goal is to illuminate a distant target rather than uniformly flood a large, nearby area.

Range up to approximately 69 meters

The advertised range is **69 meters** when used with compatible night vision equipment.

However, the actual usable range depends on the observation device used, its infrared sensitivity, atmospheric

conditions, and the observed environment.

Two power settings and up to 15 hours of battery life

The spotlight has **two power settings** to adapt the infrared illumination to the needs of the operation and the desired runtime.

- **High power:** rated battery life of up to 8 hours.
- **Low power:** rated battery life of up to 15 hours.

This power management system allows for sustained IR illumination during extended operations while adjusting the intensity to the required observation level.

Technical Specifications

portable, rechargeable 940 nm infrared spotlight	
Lighting type	Infrared for night vision
Wavelength	940 nm
Number of LEDs	24 infrared LEDs
LED Lifespan	Approximately 50,000 hours
Beam angle	7°
Advertised range	69 m
Power levels	2
Battery life – high power	Up to 8 hours
Battery life – low power	Up to 15 hours
Power consumption	24 W
Power supply	Sealed, rechargeable 12 V battery
Battery type	Sealed, rechargeable lead-acid battery (SLA/VRLA)
Rated recharge time	Approximately 5 hours after full discharge
Rated battery life	Approximately 500 cycles
Auxiliary output	12 V
Protection rating	IP54
Dimensions when folded	40 × 20 × 23 cm
Head dimensions	16.5 × 20 × 6.5 cm
Maximum mast height	82 cm
Weight with battery	Approximately 10 kg

Telescoping pole and swivel head

The spotlight features a **telescoping mast** that folds completely into the body of the unit. When extended, the head can reach a height of approximately **82 cm**.

The head is adjustable to precisely direct the infrared beam toward the area to be observed. This design eliminates the need to reposition the entire projector when the direction of surveillance changes.

A Standalone Power Supply for Field Operations

The **sealed 12 V** rechargeable **SLA/VRLA** battery enables autonomous use in the field. The stated recharge time is approximately **5 hours** after a full discharge.

A **12 V auxiliary output** is built into the system to power or recharge certain compatible devices during an operation.

Professional Applications

This spotlight is primarily intended for situations requiring **infrared-assisted nighttime observation**. It can be used, in particular, for perimeter surveillance, monitoring remote areas, security operations, or missions requiring discreet observation in the dark.

It can also be used with cameras or night vision equipment sensitive to the 940 nm wavelength.

Precautions for Using Infrared Lighting

Since the infrared beam is not directly visible like conventional lighting, do not stare at the light head when it is activated. The documentation recommends avoiding any direct exposure of the eyes or skin to the beam.

A faint red glow may also remain visible near the emitter in the dark. This characteristic must be taken into account when visual discretion is an essential requirement of the operation.

FAQ – 940 nm Infrared Projector

Can the light from the projector be seen with the naked eye?

The primary 940 nm radiation is not intended to produce light visible to the human eye. However, a faint red glow may be visible directly at the LEDs in the dark.

Do I need night vision equipment to use this illuminator?

Yes. The illuminator is designed to work with a night vision device or an infrared-sensitive camera. Without compatible equipment, the IR illumination does not allow you to observe the scene as you would with a visible light illuminator.

Why use a wavelength of 940 nm?

The 940 nm wavelength provides infrared illumination that is barely perceptible to the naked eye while remaining usable by compatible night vision equipment. It is particularly useful when you want to limit the visibility of the light source.