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RL-85-3W1-IR

Infrared LED Pistol Grip Spotlight - 15 Hour Runtime - Rechargeable Lithium Ion - 3 Watt

Product ID: 48406

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: RL-85-3W1-IR

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

RL-85-3W1-IR Spotlight
Lamp Type: Infrared LED
Dimensions: 4.5"-L 1.5"-Depth 5/8" W
Weight: 14.Oz
Watts: 3 watts
Voltage: Rechargeable- Universal Smart Charger
Materials: Aluminum - High Impact Nylon
Lamp Life Expectancy: 50,000 Hours
Battery: Lithium Ion
Charge Time: 2.5 Hours
Wavelength: 850 or 940 Nm
Beam Type: Spot

Features

Special Orders - Special Requirements
Contact us for special requirements
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The Larson Electronics RL-85-3W1-IR Infrared LED Pistol Grip Spotlight is an extremely rugged and effective IR spotlight designed to give users in operations requiring infrared illumination a powerful, durable and easy to use source of IR light. This IR spotlight produces an infrared light beam approximately 1,800' long by 175' wide in the 850 to

940 Nm range depending upon configuration, requires no tools for servicing and runs for 15 hours on a single charge.

This light weight, infrared LED spotlight is ergonomically designed to produce a well balanced and easily managed handheld infrared light source that can withstand abuse under tactical conditions and operate for 15 hours on a single charge of its integrated lithium ion battery pack. This light contains a single infrared LED which is paired with a patent pending reflector design to produce an infrared light beam that reaches 1,800 feet in length and 175 feet in width. This beam is strong enough to allow operators to read signs, license plates, addresses and other similar markings at the far end of its total range. This pistol grip spotlight is designed for durability with a handle constructed of high impact nylon and an LED fully potted within a lamp assembly constructed of machined aluminum. The LED lamp assembly is protected by a thick Lexan lens and the integral lithium ion battery pack provides long battery life rated at 1,000's of charge cycles.

This IR spotlight and the materials it is constructed from are water, UV ray, impact and vibration resistant and designed to be easily field serviceable. This unit requires no tools to remove any components and the internal connectors are accessed through a snap in base at the bottom of the handle.

The Larson Electronics RL-85-3W1-IR handheld infrared spotlight from Larson Electronics was chosen as an Editor`s Choice product by Military Embedded Systems Magazine and is featured in the Editors Choice Products column of their July/August 2011 edition.



Lithium Ion Reliability: This pistol grip IR spotlight contains an integral lithium ion battery pack for the highest reliability and durability possible. This unit charges in 2.5 hours and provides 15 hours of runtime when fully charged. The lithium ion batteries used in this unit do not require special charging practices to preserve their effectiveness or longevity and can be recharged when only halfway depleted or only charged to a fraction of their full capacity and will not suffer from degradation or battery memory issues. This means you do not need to wait until the batteries are fully depleted before recharging them, nor do you need to allow them to fully recharge before using the unit. This unit can be partially recharged, used, then the recharging process can be finished later as time allows without any loss of battery life as would happen with NiCad batteries if they were used in this manner. This allows users to use this unit at any time without having to follow complex or highly inconvenient battery charging procedures. Finally, these batteries hold their charge for up to 12 months, allowing users to avoid the need for constant maintenance charging.

Durability-Convenience: The RL-85-3W1-IR Infrared LED Pistol Grip Spotlight contains a single infrared LED that is fully potted within a machined aluminum lamp housing and protected by a thick Lexan lens. This LED has an expected life span of 50,000+ hours and the entire LED lamp housing can be removed and replaced. This light is constructed of UV, water and impact resistant materials including a handle constructed of high impact nylon for extreme durability and resistance to damage from vibrations, shocks and impacts. The machined

aluminum lamp housing is finished with an anodized coating for corrosion resistance. 16 gauge wiring is used to connect the internal components and an integral lithium ion battery pack provides 16 hours of runtime and requires 2.5 hours for a full charge. The included universal smart charging unit is compatible with any voltages both domestic and international and plugs into any standard wall outlet. The smart charger that ships with this light operates automatically and will top off the battery and quit once the battery is fully charged, even if the light is left connected to the charger once fully charged.

Versatility: The entire unit weighs only 14 ounces. This light can be ordered in either 850Nm light output configuration for use with older and more common night vision devices or 940Nm light output configuration for use with the latest 4th generation night vision equipment. This light has a 3/8-16 inch brass nut fastener imbedded in the base of the handle to allow mounting this light to a tripod or magnetic base like our MM-2 or MM-5. We also offer permanent mount bases, which can be screwed into the base as well. This unit is fully field serviceable and requires no tools to disassemble or reassemble. This unit is ideal for military, security and law enforcement as well as hunting and any application that requires an extremely durable and effective source of infrared illumination.

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Frequently Asked Questions (FAQ)

There are no Faqs

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RL-85-3W1-IR

Product ID: 48406

Harmonized System (HS) Code: 8512.20.2080
Export Control Classification Number (ECCN): EAR99

Options:

RL-85-3W1-IR-Wavelength
Example: RL-85-3W1-IR-850

Wavelength	
IR850NM	-850
IR940NM	-940
IR750NM	-750

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- **Dimensional Drawing 2D**(https://www.larsonelectronics.com/images/product/DimensionalDrawing/48406.PDF)
- **DXF (2D CAD Model)**(https://www.larsonelectronics.com/images/product/DFX/48406.ZIP)
- **MSDS (Material Safety Data Sheet**(https://www.larsonelectronics.com/images/product/Msds/48406.PDF)
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