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HL-85-3W1-IR-D

Infrared LED Handheld Spotlight w/ Inline Dimmer - Pistol Grip Spotlight w/ 16' Coil Cord - 3 Watt

Product ID: 149411

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



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.

HL-85-3W1-IR-D Spotlight
Lamp Type: Infrared LED w/ Inline Dimmer
Dimensions: 4.5"L x 1.5"D x 5/8"W
Weight: 10 Oz.
Watts: 3 watts
Voltage: 9 - 32 VDC
Materials: Aluminum - High Impact Nylon
Lamp Life Expectancy: 50,000 Hours
Connection: 16` Cord, Cigarette Plug
Wavelength: 750Nm, 850 Nm or 940 Nm
Beam Type: Spot

Features
Equipped with Inline Dimmer Switch

Special Orders - Special Requirements
Contact us for special requirements
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The HL-85-3W1-IR-D from Larson Electronics is an Infrared LED Pistol Grip Spotlight that 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 Nm range. It is available in 750Nm, 850Nm and 940Nm. Requires no tools for servicing, and runs off of any voltage from 9 to 32VDC. The HL-85-3W1-IR-D is equipped with an inline dimmer switch.

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 with any voltage ranging from 9 to 32 volts DC.

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 a detachable 16 foot coil cord with cigarette plug provides easy connection to any vehicle or equipment with a cigarette plug socket.
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 HL-85-3W1-IR-D is equipped with an inline dimmer switch (PWM) that controls the brightness of the light emitted by the LED head. This switch operates with pulse width modulation technology for precise control and reliable operation and allows the operator adjust the brightness simply by turning a dial.



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Click Photo to Enlarge



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LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.
LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.
Versatile Power Options: This pistol grip infrared spotlight operates on any voltage ranging from 9 to 32 volts DC. Each HL-85-3W1-IR-D comes with a detachable 16 foot coil cord with cigarette plug. The cord is detached via a weatherproof, 2 pin Deutsch connector which easily and securely attaches and detaches the coil cord from the spotlight. Other cords, including 21 foot cords with ring terminals (C-21RT), 16 foot cord with spring battery clamps (alligator clips) (C-16BC) and a 16 foot straight cord with cigarette plug (C-16CP) are available.
Durability-Convenience: The HL-85-3W1-IR-D 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 can be accessed through a simple snap cover in the base.



Click Photo to Enlarge

Versatility: The entire unit weighs only 14 ounces and comes with an included wrist lanyard for added carrying security. This light comes standard in 850Nm light output configuration for use with more common night vision devices. 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.
At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)

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HL-85-3W1-IR-D

Product ID: 149411

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

Options:

HL-85-3W1-IR-D-Wavelength

Example: HL-85-3W1-IR-D-730NM

Wavelength	
730NM	-730NM
850NM	-850NM
940NM	-940NM

Links (Click on the below items to view):

- **Catalog Page - Product Series**
- **Operations Manual**
- **SpecSheetSpanish**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**