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LEDLB-1-IR

Infrared LED Light - 3 watts - stud mount - 9-42v - 750nm, 850nm or 940nm

Product ID: 46707

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.

LEDLB-1-IR Infrared LED Light

Lamp Type: Infrared LED
Dimensions: 2"W 2"-H 2.5"-Depth
Watts: 3
Led Drive %: 80%
Voltage: 9-42 VDC
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Adjustable U-Bracket
Wiring: Deutsch IPD / LADD DT04-2P connector
Amps: 0.25 (on 12 volts) 0.13 (on 24 volts)
Lumens: N/A
LED Light Color: Infrared 750nm, 850nm or 940nm
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
Materials: Aluminum Housing, Polycarbonate Lens
Weight: 13 Ounces
Housing Colors: Black or White
Spot Beam: 225`L x 25`W
Flood Beam: 45`L x 40`W

CE Certified

EN55015 EMI

LEDLB-1-IR Features

Seoul Z-Power LED
Low Amp Draw
Small Size
50,000 Hour Service Life
Shock Vibration Resistant
Ambient Op Temp -45C to 85C
Multi-Unit Connectable
IP68 Rated*

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
E-mail: sales@larsonelectronics.com

EN61547 EMS

EN62471 Photobiological Safety

3 year warranty replacement on this LED light. After 30 days, the customer ships the failed LED light and/or LED bulb to Larson Electronics at their expense. If the failure is a manufacturer defect, we will ship a new replacement to the customer. If failure occurs within 30 days of receipt, Larson Electronics will provide a return label via email to the customer. When the failed light is returned, Larson Electronics will ship a new replacement.

*Click here to learn about IP ratings.

Buy American Compliant

The LEDLB-1-IR LED is an ultra compact and powerful medical use suitable infrared LED light emitter that projects an 850nm infrared beam 225 feet long and 25 feet wide as a spotlight, and an infrared beam 45 feet long by 40 feet wide as a floodlight. This IR LED light includes a high powered 3 watt LED emitter potted into an aircraft grade aluminum chassis that is designed to protect the LED and dissipate heat. This infrared light produces a beam that can only be seen through the use of night vision goggles or equipment.

The value in this IR LED fixture is in the power and form factor. At 2 inches wide by 2 inches tall, by 2.5 inches deep, this fixture draws only a 1/4 amp on 12 volts and puts out an infrared beam that reaches 225 feet. You can mount these just about anywhere traditional lights won`t fit. Another unique feature of this LED light is that the side brackets enable the operator to connect multiple units together. Thus, operators can combine any number of units to achieve the power and dimensions required for most any application.

These LEDLB series LED lights are waterproof to 3 meters, sealed against intrusion by dust and dirt and very ruggedly constructed to withstand the most demanding environments, conditions and applications. A small profile, low power requirements, high durability and versatile mounting makes these LED lights ideal for commercial use as well as a wide array of applications including but not limited to: military, industrial manufacturing, machine visioning and non destructive testing, security and law enforcement, and boating.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum housing that incorporates an advanced heat radiating design which dissipates heat efficiently to produce the maximum amount of power and longevity from the integrated Seoul Z-Power Emitters. The end result is more light and longer LED life with higher average lumen maintenance after 50,000 hours.

Voltage Control: These units are able to adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These LEDLB-3 series LED lights can operate on current ranging from 9 to 42VDC without any modifications necessary as a result. This multi-voltage capability makes these units ideal for mobile and standalone applications such as those found on commercial boats, heavy equipment and vehicles where power systems don't always operate with 12 volts and external generators, transformers or inverters are impractical.

Durability: These LED light bars from Larson Electronics also offer IP68 rated construction that is designed to withstand extremes of environmental and operating

conditions. These units can withstand frigid temperatures, are waterproof to three meters and resist ingress of dust, dirt and humidity. The housings are formed from extruded aluminum, the mounting hardware is stainless steel and the lenses are unbreakable polycarbonate. The solid stated design of these LEDs offer resistance to shocks and vibrations and are rated at 70% lumen maintenance after 50,000 hours of use.

Mounting: Suspended on top of an adjustable u-bracket, this LED light can be adjusted and tightened into any position to suit your application. A single stud protrudes from the bottom of the u-bracket mount, enabling the operator to install the light using a simple through hole mount. In other words, the light can be installed anywhere a 1/4 inch hole can be drilled. These units also feature a side locking design that allows users to join multiple units together side by side.

Options: These particular units are available in 750, 850 and 940nM wavelengths. 850nM is typically useful with older versions of night vision and commercially available security cameras and devices with night vision capability. These units are also available in spot or flood configurations to allow a tighter beam for longer range or a wider beam for illumination of larger areas closer to the fixture. Choose options below when ordering.

Note: We include a short male plug with 2 wires, stripped and tinned for connection to leads from a power source with the LED10W-1S (i.e. vehicle system, battery, etc.). Most Larson Electronics LEDLB, LEDP3W, LEDP10W, and LED10W series LED spotlights and floodlights are terminated with a Deutsch IPD / LADD DT04-2P connector. The mating connector plug is DT06-2S. Most LEDLB, LEDP10W and LED10W series lights ship with mating connector as part of a harness or pigtail, depending on the model. Some larger LED lights like the LEDLB-160X2 or LEDLB-200X2 or multiple function LED lights (i.e. high/low beam, modulating, IR/Visible combos) will have different Deutsch connectors.

Looking for more options? Click here to see our full range of Infrared LED Lights.

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Frequently Asked Questions (FAQ)

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LEDLB-1-IR

Product ID: 46707

Harmonized System (HS) Code: 9405.41.84.10
Export Control Classification Number (ECCN): EAR99

Options:

LEDLB-1-IR-Beam Pattern-Wavelength-Housing Color

Example: LEDLB-1-IR-SP-750NM-BLK

Beam Pattern	
SPOT	-SP
FLOOD	-FL

Wavelength	
750NM	-750NM
850NM	-850NM
940NM	-940NM

Housing Color	
BLACK	-BLK
WHITE	-WHT

Links (Click on the below items to view):

- **CE Certificate**
- **Dimensional Drawing 2D**
- **Eye Safety Information/Certificate**
- **Military Specification Certificate 1**
- **MSDS (Material Safety Data Sheet**
- **Operations Manual**
- **RoHS Certificate (Restriction of Hazardous Substances)**
- **Spectrum Curve (Wavelength Graph)**
- **STEP File (3D CAD Model)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **HigResPic10**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**