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LEDLB-1-IR-770NM

0.6 Watt Infrared LED Light Emitter - Adjustable Sud Mount - 9-42V - 770NM - Spot or Flood

Product ID: 278163

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-770NM Infrared LED Light

Lamp Type: Infrared LED
Dimensions: 2"W x 2"H x 2.5"-Depth
Watts: 0.6
Led Drive %: 80%
Voltage: 9-42V DC
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Adjustable U-Bracket
Wiring: Deutsch IPD / LADD DT04-2P connector
Amps: 0.05 (on 12 volts) 0.025 (on 24 volts)
Lumens: N/A
Wavelenth: Infrared 770NM
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

LEDLB-1-IR-770NM Features

Marubeni 0.6W Infrared Emitters
Low Amp Draw
Small Size
50,000 Hour Service Life
Shock Vibration Resistant
Ambient Op Temp -45°C to 85°C
Multi-Unit Connectable
IP68 Rated*

CE Certified
EN55015 EMI
EN61547 EMS
EN62471 Photobiological Safety

Special Orders- Requirements
Contact us for special requirements

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*Click here to learn about IP ratings

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The LEDLB-1-IR-770NM infrared LED is an ultra compact and powerful medical

use suitable infrared LED light emitter that projects an infrared beam in the 770 nanometer wavelength 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 0.6 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 0.05 amps 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.



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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 Marubeni 0.6W infrared emitters. The end result is more light and longer LED life with higher average lumen maintenance after 50,000 hours.

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.

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 42V DC 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: This particular unit are available 770Nm wavelengths. Alternative 750NM, 850NM, and 940NM wavelengths for medical, security, hunting, and mility applications are available (see LEDLB-1-IR for lower wavelengths). 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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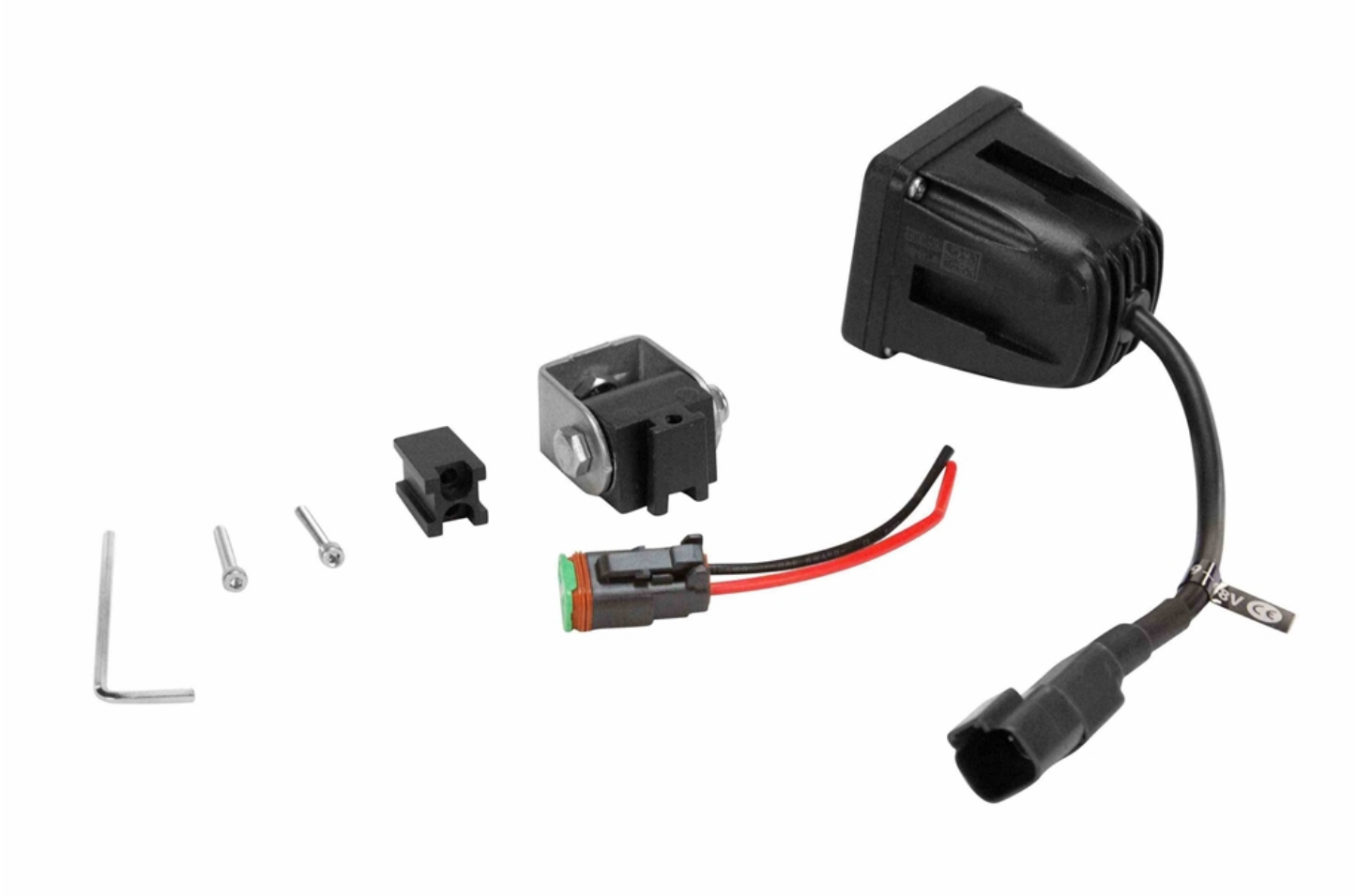

LEDLB-1-IR-770NM
Product ID: 278163

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

Options:
LEDLB-1-IR-770NM-Beam Config
Example: LEDLB-1-IR-770NM-SP

Beam Config	
SPOT	-SP
FLOOD	-FL

Links (Click on the below items to view):

- **CE Certificate**
- **Eye Safety Information/Certificate**
- **Military Specification Certificate 1**
- **MSDS (Material Safety Data Sheet**
- **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**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**