0.6 Watt Infrared LED Light Emitter - Adjustable Sud Mount - 9-42V - 1550NM - Spot or Flood

Part #: LEDLB-1-IR-1550NM

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The LEDLB-1-IR-1550NM infrared LED is an ultra compact and powerful medical use suitable infrared LED light emitter that projects an infrared beam in the 1550 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.
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.

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 1550Nm wavelengths. Alternative 750NM, 850NM, and 940NM wavelengths for medical, security, hunting, and military 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.
Specifications / Additional Information

**LEDLB-1-IR LED-1550NM 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

**Wavelength:** Infrared 1550NM

**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

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.

**LEDLB-1-IR LED-1550NM Features**

**Seoul Z-Power LED**

**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**

**Materials:** Aluminum Housing, Polycarbonate Lens

**Weight:** 13 Ounces

**Housing Colors:** Black or White

**Spot Beam:** 225'L x 25'W

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**Contact us for special requirements**

**Toll Free:** 1-800-369-6671

**Intl:** 1-903-498-3363

**E-mail:** sales@larsonelectronics.com

*Click here to learn about IP ratings

Part #: LEDLB-1-IR-1550NM (106102)