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LEDLB-24E-IR-1550NM

14.4 Watt Infrared LED Light Emitter - 1550NM IR Beam - IP68 - 9-42VDC - Extreme Environment

Product ID: 105761

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-24E-IR-1550NM LED Light Bar

LEDs: 24 Marubeni® 0.6 Watt IR LED Emitters
Dimensions: 8.25"-L x 5.27"-H x 3.57"-D
Watts: 14.4
Voltage: 9-42V DC
Weight: 7.4 Lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Stud Bracket
Wiring: Deutsch IPD / LADD DT04-2P connector
Amps: 1.2 (on 12 volts) 0.6 (on 24 volts)
LED Light Color: Infrared- 1550Nm
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
Materials: Aluminum Housing, Polycarbonate Lens
Housing Colors: Black or White
Spot Beam: 900`L x 100`W
Flood Beam: 300`L x 280`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, we will ship a new replacement.

LEDLB LED Features

Marubeni® 0.6 Watt IR LED Emitters
LEDs Driven At 80%
-40°C - +80°C Operating Temp Range
RoHS Compliant
70% Lumen Retention @ 65,000 hours
LED Chip Op Temp -40°C to +110°C
IP68 Rated Waterproof to 3 Meters
CE Certified

Special Orders - Special Requirements

Contact us for special requirements

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Buy American Compliant

The Larson Electronics LEDLB-24E-IR-1550NM LED Light Bar offers high infrared light output and extreme durability for demanding operating conditions. This IP68 rated infrared LED light bar is waterproof to three meters and produces an infrared light beam 900` long by 100` wide light that can only be seen through the use of night vision goggles while drawing only 12 watts of power @1.2 amps from a 12 volt electrical system. This unit is configued for 1550Nm light output. This light can run on any voltage from 9 to 42 volts and provides an extremely rugged infrared lighting solution that is ideal for use in commercial and industrial security applications as well as military environments.

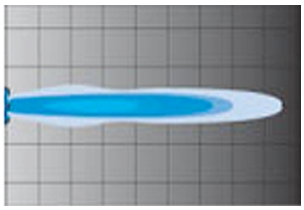
The LEDLB-24E-IR-1550NM infrared LED light bar produces light in the infrared 1550Nm end of the light spectrum depending upon the version selected. In spot configuration this infrared LED emitter produces a 900` long by 100` wide infrared beam of light with a tight focus and moderate beam spread. In flood configuration this infrared LED light produces a wide spread infrared beam concentrated much closer to fixture. Twenty-four Marubeni® 0.6 watt infrared emitters are arranged in rows and paired with high purity 10 degree optics to produce a tightly focused spot beam with limited spread or light spillage.

We offer optional floodlight versions of this light that have 35 degree optics to produce a wider beam spread and more light over a larger area nearer the fixture. These LED light bars are IP68 rated and waterproof to 3 meters, sealed against intrusion by dust and dirt and very ruggedly constructed to withstand the most demanding environments, conditions and applications. The entire LEDLB series are constructed of extruded aluminum and feature heavier housings, rubber isolated mounts and unbreakable polycarbonate lenses to provide increased durability against vibrations, impacts, waves, hard rains, sand and high winds.

LEDLB-24E-IR-1550NM
35° Flood Beam (Opt)



LEDLB-24E-IR-1550NM
10° Spot Beam (Stnd)



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 fin design which dissipates heat efficiently to produce the maximum amount of power and longevity from the integrated Marubeni® Emitters. The end result is more light and longer LED life with higher average intensity 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 monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These LEDLB series light bars 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 stand alone applications such as those found on boats, heavy equipment and vehicles where power systems don`t always operate with 12 volts and external generators, transformers or inverters are impractical.
Durability: The LEDLB-E series of LED light bars from Larson Electronics offer IP68 rated construction that is designed to withstand extremes of environmental and operating conditions. The LED lights with the `E` part number designation are are designed for extreme durability and are larger and heavier than the standard LEDLB series lights and are nearly twice as heavy as their standard counterparts. These units can withstand rapid temperature changes of -40 degrees Celsius to 85 degrees Celsius, are waterproof to three meters and resist ingress of dust, dirt and humidity. The housings are formed from thick extruded aluminum and the lenses are unbreakable polycarbonate. The Marubeni® LEDs offer inherent LED resistance to shocks and vibrations contributing to these units 15.6Grms rating of vibration tolerance. We recommend these LED lights for high stress - high vibratory conditions, high humidity climates, very cold areas and rough saltwater conditions. They are also well suited to environments where equipment is used in one temperature extreme and stored in another temperature extreme.
Mounting: LEDLB series light bars are equipped standard with aluminum mounting blocks which slide within the aluminum housing to allow users to adjust their positioning to match existing or user drilled mounting holes. Each aluminum mounting block has an integrated rubber bushing to absorb vibrations and shocks. To secure the lights in place users simply slide the mounting bolts through the aluminum mounting block and rubber isolator, through the mounting surface, then secure the bolt with a locking nut on the opposite side of the mounting surface. This mounting system enables mounting to flat or round surfaces and allows for minimal 7 degrees of flexibility of angle placement of the light. We also offer a BC-2 bar clamp mounting system you can view here for even greater mounting versatility.
Note: Most 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 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.
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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LEDLB-24E-IR-1550NM

Product ID: 105761

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

Options:

LEDLB-24E-IR-1550NM-Beam Config-Housing Color

Example: LEDLB-24E-IR-1550NM-SP-BLK

Beam Config	
SPOT	-SP
FLOOD	-FL

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**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**