Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

LEDLB-1-IR-PDB

3W Infrared LED Light Emitter - 9-42V DC - Double Ball Mount

Product ID: 154530

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-PDB Infrared LED Light

Lamp Type: Infrared LED
Dimensions: 2"W 3.2"-H 2.5"-Depth (Head Only)
Watts: 3
Voltage: 9-42V DC
LED Life Expectancy: 50,000 hours
Lighting Configuration: 10° Spot or 35° Flood
Infrared Wavelength: 750nm, 850nm or 940nm
LED Drive %: 80%
Optics Efficiency: 90%
Amps: 0.25 @ 12V 0.13 @ 24V
Materials: Aluminum Housing, Polycarbonate Lens
Mounting: 4"X4" Permanent Mount Plate/Double Ball Joint Mount
Wiring: Deutsch IPD / LADD DT04-2P Connector
Housing Colors: Black or White

Ratings

Low Amp Draw
Multi-Unit Connectible
50,000 Hour Service Life
Ambient Op Temp -45C to 85C
Pin-compatible with HV9910B

Special Orders - Special Requirements

Contact us for special requirements

Intl: 1-903-270-1187
Toll Free: 1-800-369-6671
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

The Larson Electronics LEDLB-1-IR-PDB Infrared LED Light Emitter is recommended for applications where a fixed, adjustable mounting system is desired. This 3-watt infrared LED lamp is offered in 750nm, 850 nm or 940 nm wavelengths. A permanent base provides secure, rugged mounting while a double ball joint mount provides the operator

with the ability to adjust the unit at various angles while mounted.
The LEDLB-1-IR-PDB is a heavy-duty infrared LED lamp for outdoor locations and rugged applications. This unit operates on low voltage 9-42V DC and is offered in the following infrared bands: 750 nm, 850 nm or 940 nm. During use, the infrared fixture emits a 10-degree spot beam measuring 225` x 25` or a 35-degree flood beam measuring 45` x 40`. Floodlight versions with a 35 degree beam spread are designed to provide more light over a larger area nearer the fixture.
Our LED10W series of 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.
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.
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 LED10W 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: The LED10W series of LED light bars from Larson Electronics 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 and the lenses are unbreakable polycarbonate.
Mounting: A 4"X4" permanent mount base with 4 through-holes secures this unit to various flat surfaces while a double ball joint mount allows 360 degrees of rotation and 140 degrees of tilt. To adjust this LED unit simply loosen to the thumb bolt located on the side of unit, position the light head as desired, then retighten the thumb screw.
Note: We include a short male plug with 2 wires, stripped and tinned for connection to leads from a power source with the LEDLB-1-IR-PDB (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.
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.

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

Frequently Asked Questions (FAQ)

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

LEDLB-1-IR-PDB

Product ID: 154530

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

LEDLB-1-IR-PDB-Color-Beam Config-Wavelength

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

Color	
BLACK	-BLK
WHITE	-WHT

Beam Config	
SPOT	-SP
FLOOD	-FL

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

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)**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**