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LEDLB-100-IR

Infrared LED Light Bar - 100 IR LEDs - 300 Watts - 750/850/940NM - 50X2 LED Array - 9-42VDC

Product ID: 47106

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-100-IR LED Light Bar

LEDs: 100 Edixeon® 3 Watt Infrared LED Emitters
Dimensions:52"-L 2.75"-H 3"-D
Watts: 300
Voltage: 9-46 VDC
Spot Beam:1800`L x 380`W
Flood Beam:600`L x 560`W
Weight: 19 Lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Stud Bracket
Wiring: Deutsch IPD / LADD DT04-2P Connector
Amps: 25(on 12 Volts) 12.5 (on 24 Volts)
Total Megawatts: 30,000

Wavelength: 750Nm 850Nm or 940Nm Infrared

LED Life Expectancy: 50,000 hours
Optics Efficiency:90%
Materials: Aluminum Housing, Polycarbonate Lens
Housing Colors: Black or White

LEDLB LED Features

Edixeon® 3 Watt LED Emitters
LEDs Driven At 80%
-40° C~ +80°C Operating Temp Range
RoHS Compliant
LED Chip Op Temp -40C to +125C
IP67 Rated Waterproof to 1 Meter
CE Certified

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

Buy American Compliant

The Larson Electronics LEDLB-100-IR LED Light Bar offers high light output and a compact profile combined with versatile mounting and

power options. This IP67 rated LED light bar is waterproof to one meter and produces 30,000 megawatts of infrared light while drawing only 300 watts of power at 25 amps from a 12 volt electrical system. This light can run on any voltage from 9 to 42 Volts DC and produces an infrared light beam that can only be seen through the use of night vision goggles. 750Nm, 850Nm and 940Nm IR wavelengths are available.

Click here to see the LED version of this

The LEDLB-100-IR LED light bar from Larson Electronics produces a far reaching infrared spot beam with 30,000 megawatts of IR light. This LED Light Bar has 100 Edison Edixeon® three watt Infrared Emitters LEDs producing 300 mW each and are paired with high purity 10° degree optics to produce a tightly focused infrared spot beam with limited spread or light spillage. We also offer optional floodlight versions with 35° degree optics to produce a wider beam spread and more light over a larger area nearer the fixture. These Infrared LED light bars are IP67 rated and waterproof to 1 meter and is sealed against intrusion by dust and dirt and ruggedly constructed to withstand demanding environments.

The entire Larson Electronics LEDLB series are constructed of extruded aluminum and feature low profile compact housings, rubber isolated mounts and unbreakable polycarbonate lenses to provide increased durability against vibrations, impacts, waves, hard rains, sand and high winds.

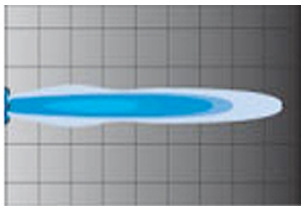
Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum housing that incorporates an advanced heat radiating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

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 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.

LEDLB-100-IR 35° Flood Beam (Opt)



LEDLB-100-IR 10° Spot Beam (Stnd)



Durability: The LEDLB series of LED light bars from Larson Electronics offer IP67 rated construction that is designed to withstand the rigors of demanding of environmental and operating conditions yet are lighter and smaller than our LEDLBE series of extreme duty light bars. The LEDLB series is designed to provide a low profile, light weight, high performance light bar that can be mounted where other lights will not fit. These units can operate in temperatures of -40 degrees Celsius to 80° degrees Celsius, are waterproof to 1 meter and resist ingress of dust, dirt and humidity. The housings are formed from extruded aluminum and the lenses are unbreakable polycarbonate. The Edixeon® LEDs offer inherent LED resistance to shocks and vibrations contributing to these units 15.6Grms rating of vibration tolerance.

Mounting: Larson Electronics 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 herefor even greater mounting versatility.

Click here to view an article on the Generations of Night Vision and Infrared.
Note: 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 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.

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Frequently Asked Questions (FAQ)

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LEDLB-100-IR

Product ID: 47106

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

LEDLB-100-IR-Beam Pattern-Wavelength-Housing Color

Example: LEDLB-100-IR-S-750nm-BLK

Beam Pattern	
SPOT	-S
FLOOD	-F

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

Housing Color	
BLACK	-BLK
WHITE	-WHT

Links (Click on the below items to view):

- **CE Certificate**
- **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)**
- **HigResPic1**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**