

IR Emitter Light Bar - 60 watts - 20 LEDs - IBIS TEk - IBIS - 9-42VDC 750/850/940nm

Part #: LEDLB-20-IR

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The Larson Electronics LEDLB-20-IR LED Light Bar offers high infrared light output in a light weight, durable, low profile housing combined with versatile mounting and power options. This IP67 rated infrared LED light bar is waterproof to one meter and produces 3600 lumens of infrared light while drawing only 60 watts of power @5 amps from a 12 volt electrical system. This light can run on any voltage from 9 to 42 volts and produces an infrared light beam that can only be seen through the use of night vision equipment. 750Nm, 850Nm or 940Nm versions.

The LEDLB-20-IR LED light bar from Larson Electronics produces a 750` long by 110` wide infrared light beam. Twenty Edison 3 watt infrared Edixeon® Emitters producing 180 lumens of light each in the infrared spectrum 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 also offer optional floodlight versions with 35 degree optics to produce a wider infrared beam spread. We offer 750Nm, 850Nm versions that are ideal for most IR applications and 940Nm versions that require the latest military grade IR equipment for full effectiveness.

[Click here to view an article on the Generations of Night Vision and Infrared.](#)

These infrared LED light bars are IP67 rated and waterproof to 1 meter, sealed against intrusion by dust and dirt and ruggedly constructed to withstand demanding environments, conditions and applications. 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.



Photo taken using LEDLB-20-IR and night vision camera

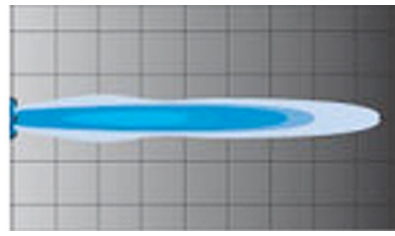
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Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum 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 with higher average lumen maintenance after 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-20-IR 35° Flood Beam
(Opt)**

**LEDLB-20-IR 10° Spot Beam
(Std)**



Durability: The LEDLB series of LED light bars from Larson Electronics offer IP67 rated construction that is designed to withstand the rigors of demanding environmental and operating conditions yet are lighter and smaller than our LEDLB-E 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 here](#) for even greater mounting versatility.

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.

Specifications / Additional Information**LEDLB-20-IR LED Light Bar****LEDs:** 20 Edixeon® 3 Watt Infrared Emitters**Dimensions:** 12"-L 2.75"-H 3"-D**Watts:** 60**Voltage:** 9-42 VDC**Spot Beam:** 80° L x 80° W**Flood Beam:** 250° L x 250° W**Weight:** 5 Lbs**Lighting Configuration:** 10° Spot or 35° Flood**Mounting:** Stud Bracket**Wiring:** Deutsch IPD / LADD DT04-2P connector**Amps:** 5 (on 12 volts) 2.5 (on 24 volts)**Lumens:** 3600**Wavelength:** 750nm, 850nm or 940nm**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~ +80C Operating Temp Range

RoHS Compliant

70% Lumen Retention @65,000 hours

LED Chip Op Temp -40C to +125C

IP67 Rated Waterproof to 1 meter

Special Orders- Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671**Intl:** 1-903-498-3363**E-mail:** sales@larsonelectronics.com**CE Certified**[EN55015 EMI](#)[EN61547 EMS](#)[EN62471 Photobiological Safety](#)

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.

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Part #: LEDLB-20-IR (1829)

Options:

LEDLB-20-IR- BEAM PATTERN - IR WAVELENGTH - HOUSING COLOR

Example: LEDLB-20-IR-S-750nm-BLK

BEAM PATTERN		IR WAVELENGTH		HOUSING COLOR	
Spot	-S	750nm	-750nm	Black	-BLK
Flood	-F	850nm	-850nm	White	-WHT
		940nm	-940nm		









Links (Click on the below items to view):

- [Manual](#)
- [SpectrumChart](#)
- [Hi-Res Image 1 - IR Emitter Light Bar - 60 watts \(Main\)](#)
- [Hi-Res Image 1 - IR Emitter Light Bar - 60 watts \(Angle 1\)](#)
- [Hi-Res Image 1 - IR Emitter Light Bar - 60 watts \(Angle 2\)](#)
- [Hi-Res Image 1 - IR Emitter Light Bar - 60 watts \(Side 1\)](#)
- [Hi-Res Image 1 - IR Emitter Light Bar - 60 watts \(Side 2\)](#)
- [Hi-Res Image 1 - IR Emitter Light Bar - 60 watts \(Mounting Brackets\)](#)
- [Hi-Res Image 1 - IR Emitter Light Bar - 60 watts \(Top\)](#)