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-24SD-C

72 watt 24 LED Emitter Light - Precise Pulsing Control for Strobe to 1KHz and Dimming Down to 2%

Product ID: 47295

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-24SD-C LED Light Bar

LEDs: 24 Edixeon® 3 Watt LED Emitters
Dimensions: 8"-L 4.7"-H 3.00"-D
Watts: 72

Voltage: 9-42 VDC
Spot Beam: 575`L x 70`W
Flood Beam: 130`L x 100`W

Weight: 4 Lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Flat Surface or Tube - Adjustable

Wiring: Deutsch IPD / LADD DT04-2P connector

Amps: 6 (on 12 volts) 3 (on 24 volts)

Lumens: 4,320
LED Light Color: Red, Blue, Green Amber, Infrared

LED Life Expectancy: 50,000 hours

Optics Efficiency: 90%

Materials: Aluminum Housing, Polycarbonate Lens

Housing Colors: Black or White

CE Certified
EN55015 EMI
EN61547 EMS

LEDLB LED Features

Edixeon® 3 Watt LED Emitters
LEDs Driven At 80%
-40 C~ +80C Operating Temp Range

70% Lumen Retention @65,000 hours

IP67 Rated Waterproof to 1 meter

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

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.

Buy American Compliant

The Larson Electronics LEDLB-24SD-C LED Light Bar offers high light output in a light weight, durable, low profile housing combined with versatile mounting and power options. This IP67 rated LED light bar is waterproof to one meter and produces 4,320 lumens while drawing only 72 watts of power @6 amps from a 12 volt electrical system. This light can run on any voltage from 9 to 42 volts and can be configured to produce Red, Green, Amber, Blue or Infrared light.

The LEDLB-24SD-C LED light bar from Larson Electronics produces a 575` long by 70` wide light beam with 4,320 lumens of Red, Green, Amber or Blue light while drawing only 72 watts @6 amps from a 12 volt electrical system. Twenty Four Edison Edixeon® Emitters containing CREE EZBright® three watt LEDs producing 180 lumens each are 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 beam spread approximately 300` long by 280` feet wide.
These LED light bars are IP67 rated and waterproof to one meter, sealed against intrusion by dust and dirt and ruggedly constructed to withstand demanding environments and applications. The entire Larson Electronics LEDLB series are constructed of extruded aluminum and feature rubber isolated mounts and unbreakable polycarbonate lenses to provide durability and resistance to vibrations, impacts, waves, hard rains, sand and high winds.

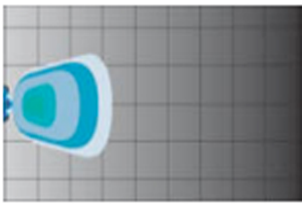
This LED light contains a specially designed board that enables operators to feed a pulse train or variable voltage to produce custom strobe sequences or various dimming scenarios. These LED lights are dimmable down to 2 percent, while most of our LED lights are only dimmable to 11% with our standard PWM (PWM-6). For example, using a variable voltage power supply, operators can feed a 7Hz pulse to the light and get 7Hz flash rate out. In addition to white light and infrared light, these 72 watt LED light is configurable with amber, blue, red or green LEDs.
The spectrum bandwidth charts, defining center frequency are available for download. We are able to provide designers and operators precise control over the light while maintaining integrated drivers that continue to protect and optimize the LED package functionality with a separate control wire. If the green control wire is disconnected or grounded the lamp operates normally. If a voltage between1.8 to 40V positive relative to ground is applied to the control wire the lamp will turn off. The control wire input can be used for pulsing with a pulsing frequency range of DC to 1kHz with duty cycle range of 0 to 98% at 1kHz. Control input is inverted with a Pulse Width Modulator (PWM), for example if you applied a 90% PWM signal to the control pin, the lamp would be on for 10% of the time.



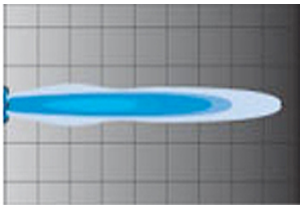
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Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum 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 ranging from 9 to 42 VDC. These LEDLB series light bars can operate on current ranging from 9 to 42 VDC 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.

LEDLB-24SD-C 35° Flood Beam (Opt)



LEDLB-24SD-C 10° Spot Beam (Stnd)



Durability: The LEDLB series of LED light bars from Larson Electronics are lighter and smaller than our LEDLB-E extreme series and offer IP67 rated construction that is designed to withstand tough environmental and operating conditions. These units can operate in temperatures ranging from -40 degrees Celsius to 85 degrees Celsius, are waterproof to one meter and resist ingress of dust, dirt and humidity. The housings are formed from extruded aluminum, the hardware is stainless steel 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. These LEDLB series light bars are ideal for use in marine environments as well as industrial and commercial settings.
Mounting: These LEDLB light bars feature a smaller profile and lighter weight than our LEDLB-E series lights, making them ideal for use in locations where traditional lights cannot fit or would block other mounted equipment. 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. In this LED emitter light bar model, an additional mounting option is provided. The adjustable, shock insulated mounts are attached to a simple, inverted u-bracket type mount. The LED light bar can then be mounted via a single 3/8 bolt through the center of the bracket. 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.

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Frequently Asked Questions (FAQ)









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LEDLB-24SD-C

Product ID: 47295

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

Options:

LEDLB-24SD-C-Finish-LED Color-Beam Type

Example: LEDLB-24SD-C-Black-RED-SPT

Finish	
BLACK	-Black
WHITE	-White

LED Color	
RED	-RED
BLUE	-BLU
GREEN	-GRN
AMBER	-AMBR
IR750	-IR750
IR850	-IR850
IR940	-IR940

Beam Type	
SPOT	-SPT
FLOOD	-FLD

Links (Click on the below items to view):

- CE Certificate
- Dimensional Drawing 2D
- Military Specification Certificate 1
- MSDS (Material Safety Data Sheet
- Operations Manual
- RoHS Certificate (Restriction of Hazardous Substances)
- SpecSheetArabic
- SpecSheetFrench
- Spectrum Curve (Wavelength Graph)
- STEP File (3D CAD Model)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- Video1
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map