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LEDLB-24E-VIR-2XIR

MRAP Light - Visible/IR Light - 24 LEDs - 72 Watts - 450NM, 850NM, and 940NM Combination

Product ID: 68791

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-VIR-2XIR LED Light Bar

LEDs: 24 Edixeon® 3 Watt LED Emitters
Dimensions: 8.25"-L 5.27"-H 3.57"-D
Watts: 72

Voltage: 9-42 VDC
Spot Beam: 900`L x 100`W
Flood Beam: 275`L x 250`W

Weight: 7.4 Lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Stud Bracket
Wiring: Deutsch IPD / LADD DT04-2P connector

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

LED Light Color: Visible-6000K - Infrared- 850Nm and 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 +110C
IP68 Rated Waterproof to 3 Meters

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

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.

Buy American Compliant

The Larson Electronics LEDLB-24E-VIR-2XIR LED Light Bar offers high infrared and visible light output while providing extreme durability for demanding operating conditions. This IP68 rated infrared LED light bar is waterproof to three meters and produces a combination of visible and infrared light. 850Nm versions have a very slight red glow around the LED emitters when veiwed from a certain angle while 940Nm versions are completely invisible to the naked eye. 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.

Click here to see the visbile LED version of this

The LEDLB-24E-VIR-2XIR visible infrared LED light bar from Larson Electronics produces a combination light beam of visible 450Nm and infrared 850Nm and 940Nm end of the light spectrum depending. In spot configuration this combination 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 Edison Edixeon® 3 watt emitters producing arranged in rows and paired with high purity 10 degree optics to produce a tightly focused spot beam with limited spread or light spillage.

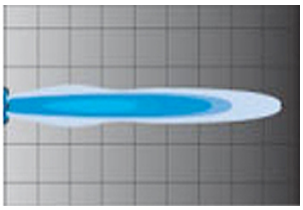
Click here to view an article on the Generations of Night Vision and Infrared.

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 Larson Electronics 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-VIR 35° Flood Beam (Opt)



LEDLB-24E-VIR 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 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 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.
Wavelength: The top two rows of LEDs are split between 850nm and 940nm. The left four LEDs are one wavelenth, with the right eight LEDs the other. The bottom twelve LEDs produce visible light with the peak in the 440-460nm wavelength. Please choose the primary and secondary infrared wavelenths when purchasing. 2X850NM-1X940NM fixtures will contain eight 850nm diodes and four 940nm diodes, while 1X850NM-2X940NM fixtures will contain four 850nm diodes and eight 940nm diodes.

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 designationare 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 Edixeon® 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: 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.

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Frequently Asked Questions (FAQ)









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LEDLB-24E-VIR-2XIR

Product ID: 68791

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

LEDLB-24E-VIR-2XIR-Beam Config-Wavelength

Example: LEDLB-24E-VIR-2XIR-S-2X850NM-1X940NM

Beam Config	
SPOT	-S
FLOOD	-F

Wavelength	
850NM PRIMARY	-2X850NM-1X940NM
940NM PRIMARY	-1X850NM-2X940NM

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
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map