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LEDLB-120X2ET-VIR

360W Visible/Infrared LED Light Emitter - 21600 Lumens - Extreme Environment - 1900'L X 420'W Spot

Product ID: 106386

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-120X2ET-VIR LED Light Bar

LEDs: Visible/Infrared LEDs
Dimensions: 32"-L 4.75"-H 3"-D
Watts: 120
Voltage: 9-42V DC
Spot Beam: 1900`L x 420`W
Flood Beam: 640`L x 600`W
Weight: 31.20 Lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Trunnion Bracket
Wiring: Deutsch IPD / LADD DT04-2P connector
Amps: 10 (on 12 volts) 5 (on 24 volts)
Lumens: 21600 Lumens
LED Light Color: Infrared- 750Nm, 850Nm or 940Nm and 6000K
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 IR LED Emitters
LEDs Driven At 80%
-40° C~ +80° C Operating Temp Range
RoHS Compliant
70% Lumen Retention @65,000 hours
LED Chip Op Temp -40°C to +110°C
IP68 Rated Waterproof to 3 Meters
CE Certified

Special Orders - Special Requirements

Contact us for special requirements

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Buy American Compliant

The Larson Electronics LEDLB-120X2ET-VIR Combination LED Light Bar offers high 21,600 lumen output from 360 watts with visible and infrared

light output and extreme durability for demanding operating conditions. This IP68 rated LED light bar is waterproof to three meters and produces a visible bright white light beam and an infrared light beam that can only be seen through the use of night vision goggles. 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, is mounted via adjustable trunnion bracket 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 LED version of this

The LEDLB-120X2ET-VIR infrared LED light bar from Larson Electronics produces light in the infrared 750NM, 850NM or 940NM end of the light spectrum depending upon the version selected. Sixty Seoul P4® and sixty Edison Edixeon® 3 watt infrared emitters producing are arranged in stacked rows and paired with high purity 10 degree optics to produce a tightly focused spot beam 1900` long by 420` wide with limited spread or light spillage. 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.

Two separate power connections are provided, including one that powers the infrared LEDs and one that powers the visible LEDs. Thus, the visible LEDs can be connected to a MRAP or MATV blackout system, enabling the visible light to be turned off when the operator goes into covert mode. 2 rows of 60 LEDs are dedicated to visible lighting, while the other two rows of 60 LEDs are dedicated to infrared lighting. The infrared portion of this LED light can be configured with 750Nm, 850nm or 940nm wavelength IR LEDs.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

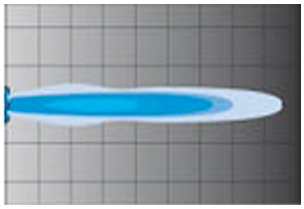
LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

The entire Larson Electronics LEDLB-E 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-120X2ET-VIR 35° Flood Beam (Opt)



LEDLB-120X2ET-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.
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 designation are designed for extreme durability and are larger and 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: The trunnion mounting design on the LEDLB-40X2ET-IR allows for post-installation angle positioning. This means that by loosening 2 thumb bolts located on either side of the light, the operator can adjust the positioning angle of this light 270 degrees. Then he/she would simply have to tighten thumb bolts to lock the angle in place. No tools are required for adjusting angle. 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.
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.

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Frequently Asked Questions (FAQ)

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LEDLB-120X2ET-VIR
Product ID: 106386

Warranty: 36 Months

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

Options:
LEDLB-120X2ET-VIR-Beam Config-Wavelength-Housing Color
Example: LEDLB-120X2ET-VIR-SP-750NM-BLK

Beam Config	
SPOT	-SP
FLOOD	-FL

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**
- **RoHS Certificate (Restriction of Hazardous Substances)**
- **Spectrum Curve (Wavelength Graph)**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**