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DSG-LEDLB-40X2ET-IR

120 Watt Infrared LED Light Emitter on Trunnion Mount - 750n, 850nm, 940nm - 9-42VDC - Amp Connector

Product ID: 71648

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.

DSG-LEDLB-40X2ET-IR LED Light Bar

LEDs: 40 Edixeon® 3 Watt IR LED Emitters
Dimensions: 12.5"-L 5"-H 3.57"-D
Watts: 120
Voltage: 9-42 VDC
Weight: 11 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)
Megawatts: 12,000mW
LED Light Color: Infrared- 750nm, 850Nm or 940Nm
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
Materials: Aluminum Housing, Polycarbonate Lens
Housing Colors: Black or White
Spot Beam: 1300`L x 180`W (1 lux)
Flood Beam: 420`L x 380`W (1 lux)

LEDLB LED Features

Edixeon® 3 Watt IR LED Emitters
LEDs Driven At 80%
-40 C~ +80C Operating Temp Range
RoHS Compliant
LED Chip Op Temp -40C to +110C
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 DSG-LEDLB-40X2ET-IR LED Light Bar offers powerful infrared light output and extreme durability for demanding operating conditions. This IP68 rated infrared LED light is waterproof to three meters and produces 12,000MW 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 and provides an extremely rugged infrared lighting solution that is ideal for use in commercial and industrial security applications as well as military environments.

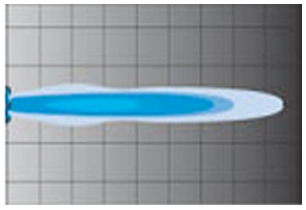
The DSG-LEDLB-40X2ET-IR infrared LED light bar from Larson Electronics produces light in the infrared 850Nm or 940Nm end of the light spectrum depending upon the version selected. Forty Edison Edixeon® three watt Infrared Emitters LED`s are paired with high purity 10° optics to produce a tightly focused spot beam 1300` long by 180` wide with limited spread or light spillage. We offer optional floodlight versions of this light that have 35° 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.

Our entire 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.

DSG-LEDLB-40X2ET-IR
35° Flood Beam (Opt)



DSG-LEDLB-40X2ET-IR
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 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 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 offer IP68 rated construction that is designed to withstand extremes of environmental and operating conditions. Our 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 DSG-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: DSG-LEDLB-280X2ET-IR infrared LED bars come standard with Amphenol Connectors instead of the Deutsch connector commonly found on various Larson Electronics LED emitters.

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Frequently Asked Questions (FAQ)

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DSG-LEDLB-40X2ET-IR

Product ID: 71648

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

Options:

DSG-LEDLB-40X2ET-IR-Finish-Beam Config-Wavelength

Example: DSG-LEDLB-40X2ET-IR-BLK-S-750nm

Finish	
BLACK	-BLK
WHITE	-WHT

Beam Config	
SPOT	-S
FLOOD	-F

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

Links (Click on the below items to view):

- **CE Certificate**
- **Dimensional Drawing 2D**
- **Eye Safety Information/Certificate**
- **MSDS (Material Safety Data Sheet**
- **RoHS Certificate (Restriction of Hazardous Substances)**
- **Spectrum Curve (Wavelength Graph)**
- **STEP File (3D CAD Model)**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**