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LEDLB-16ET-IR-HDGN-M

Infrared LED Light Emitter w/ Magnetic Gooseneck Mount - 850 or 940NM - 700'L X 80'W Beam - 9-42VDC

Product ID: 146974

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-16ET-IR-HDGN-M LED Light Bar w/ Magnetic Gooseneck Mount

LEDs: 16 Edixeon® 3 Watt Infrared LEDs
Dimensions: 6.25"L x 18.75"H x 3.56"D
Watts: 48
Voltage: 9-42V DC
Weight: 8 lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Gooseneck Mount w/ 200 lb Magnetic Base
Wiring: 16` Cord w/ Cigarette Plug Options
Cord Cap Options: 16` Cig. Coil, 16` Cig, 21` Ring Terms, 16` Battery Clamps, 16` Flying Leads

Amps: 4 (on 12 volts) 2(on 24 volts)

Lumens: 2,880
LED Light Color: Infrared: 850Nm or 940Nm
LED Life Expectancy: 50,000 hours

Optics Efficiency: 90%

Materials: Aluminum Housing, Polycarbonate Lens
Housing Color: Black
Lux at Lens: Spot-199,000 Flood- 197,800
Lux at 1 Meter: Spot-12,910 Flood- 2,510

CE Certified
3 year warranty replacement on this LED light. After 30 days, the customer ships the

LEDLB LED Features

Edixeon® 3 Watt LED Emitters
LEDs Driven At 80%
-40°C ~ +80°C Operating Temp Range
RoHS Compliant
70% Lumen Retention @ 65,000 hours
Ambient Op Temp -40°C to +125°C
IP68 Rated Waterproof

Special Orders - Special Requirements
Contact us for special requirements

Toll Free: 1-800-369-6671

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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 LEDLB-16ET-IR-HDGN-M from Larson Electronics is a LED Light Bar with Magnetic Gooseneck Mount that offers high light output and extreme durability combined with a versatile gooseneck mounting system equipped with a 200 lb magnet that provides mounting and positioning versatility in a wide variety of situations. This IP68 rated LED light bar produces 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 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-16ET-IR-HDGN-M magnetic gooseneck 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. Sixteen Edison Edixeon*#174; three watt infrared LEDs producing 180 lumens each are paired with high purity 10 degree optics to produce a tightly focused, 700` long by 80` wide spot beam 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 infrared 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-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. This light is equipped with a magnetic gooseneck mounting bracket that allows operators to adjust the light at four different pivot points for precise coverage.

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

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.

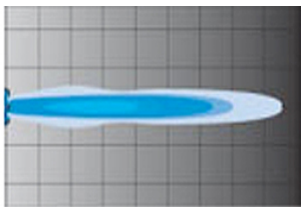
Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum housing that incorporates an advanced heat radiating fin design which dissipates heat efficiently to produce the maximum amount of power and longevity from the integrated Edison Edixeon® three watt infrared LEDs. 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 42V DC 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 dont always operate with 12 volts and external generators, transformers or inverters are impractical.

LEDLB-16ET-IR-HDGN-M 35° Flood Beam (Opt)



LEDLB-16ET-IR-HDGN-M 10° Spot Beam (Stnd)



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 feet 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 LEDLB-16ET-IR-HDGN-M features a magnetic gooseneck mounting system that offers operators a high degree of versatility and adjustment. This mounting system features four pivot points that offer maximum flexibility and precision in adjusting and positioning the light head. This allows operators to dial in the ideal position for precise coverage of their work area with the infrared LED light as required. Two sets of double ball joints allow for swivel movement and are adjusted by loosening/tightening aluminum T-handles on the gooseneck mount and thumbscrews on the trunnion bracket that connects the light head to the mounting bracket. A 200 lb magnet on the base of the gooseneck mount offers further versatility and allows operators to attach the light to magnetic surfaces. This allows for temporary mounting for inspection operations on the job site as well as providing a mounting method for instances where drilling holes isn`t desired or where a quick and fast install is needed.



16ft Coil Cord w/Cigarette Plug



21ft Cord with Ring Terminals



16ft Cord w/Battery Clamps



16ft Cord with Cigarette Plug

Click Images to Enlarge

Each light comes with a detachable 16 foot coil cord with cigarette plug. The cord is detached via a weatherproof, 2 pin Deutsch connector which easily and securely attaches and detaches the coil cord from the spotlight. Other cords, including 21 foot cords with ring terminals (C-21RT), 16 foot cord with spring battery clamps (alligator clips) (C-16BC) and a 16 foot straight cord with cigarette plug (C-16CP) are available.

This light can be ordered in either 12 volt or 24 volt configuration, allowing it to be used with any vehicle or ATV equipped with a cigarette plug. Choose voltage below when ordering.

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. You can review the Deutsch connector technical details here .

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-16ET-IR-HDGN-M

Product ID: 146974

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

LEDLB-16ET-IR-HDGN-M-Beam Pattern-Wavelength-Plug Option

Example: LEDLB-16ET-IR-HDGN-M-SP-750nm-16CP.CC

Beam Pattern	
SPOT	-SP
FLOOD	-FL

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

Plug Option	
16 CIG COIL	-16CP.CC
16 CIG	-16CP
21 RING TERMS	-21RT
16 BATT CLAMPS	-21BC
16 FLYING LEADS	-16.Pigtail

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)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**