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PML-24E-IR

72W Handheld LED Light - Permanent Mount - IR Light - 24 LEDs - 72 Watts - 9-42 Volts - MRAP Light

Product ID: 223770

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.

PML-24E-IR Infrared LED Permanent Mount Light Bar

LEDs: 24 Edixeon® 3 Watt IR LEDs
Dimensions: 8.25"L x 5.27"H x 3.57"D
Watts: 72 Wats
Voltage: 9-42 V DC
Spot Beam: 900`L x 100`W
Flood Beam: 300`L x 280`W
Weight: 7.4 lb
Lighting Configuration: 10° Spot or 35° Flood
Mounting: 4" Inch Square Mounting Plate
Wiring Options: 16` Cigarette Coil, 16` Cigarette, 21` Ring Terminals, 16` Battery Clamps or 16` Flying Leads
Amps: 6 (on 12 volts) 3 (on 24 volts)
Lumens: 4320
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

LEDLB LED Features

(24) Infrared 3 Watt LEDs
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
EN55015 EMI
EN61547 EMS
EN62471 Photobiological Safety

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671
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E-mail: sales@larsonelectronics.com

Buy American Compliant

The PML-24E-IR from Larson Electronics is a Handheld Permanent Mount LED

Light that offers high infrared light output while providing extreme durability for demanding operating conditions. This IP68 rated infrared LED light bar is waterproof to three meters and produces an infrared light beam 900` long by 100` wide light that can only be seen through the use of night vision goggles. 850 Nm versions have a very slight red glow around the LED emitters when veiwed from a certain angle while 940 Nm 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 visible LED version of this

The PML-24E-IR infrared LED light bar produces light in the infrared 850 Nm or 940 Nm end of the light spectrum depending upon the version selected. In spot configuration this infrared 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 infrared LEDs are arranged in rows and paired with high purity 10 degree optics to produce a tightly focused spot beam with limited spread or light spillage.

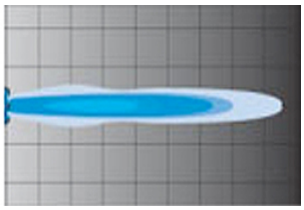
Click here to view an article on the Generations of Night Vision and Infrared.

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.

PML-24E-IR
35° Flood Beam



PML-24E-IR
10° Spot Beam



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® 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 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. This unit ships with a 20` 3-wire cord, with two positive (+) cables and one negative (-) cable. The dual positive cables allow operators to power the infrared and visible light seperately.
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.



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

Wiring: 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.
Mounting: This light has a 4 inch square steel mounting plate that is secured to the mounting surface via 4 screws. The mounting assembly on this unit allows the unit to be rotated and adjusted vertically. The adjusting hinges on ths light are tensioned, allowing the user to simply position the light as desired without any need for locking the unit into place. Once positioned, the light will hold its position until the user again repositions it. The heavy gauge steel handle bracket supports the hinged lamp head and a solid polypropylene handle for easy adjusting of the light beam.
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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PML-24E-IR

Product ID: 223770

Harmonized System (HS) Code: 8512.20.2080
Export Control Classification Number (ECCN): EAR99

Options:

PML-24E-IR-Cord-Wavelength/Beam-Housing Color

Example: PML-24E-IR-16CP.CC-SP.750nm-BLK

Cord	
16 CIG COIL	-16CP.CC
16 CIG	-16CP
21 RING TERMS	-21RT
16 BATT CLAMPS	-21BC
16 FLYING LEADS	-16.PIGTAIL

Wavelength/Beam	
SPOT 750NM	-SP.750nm
SPOT 850NM	-SP.850nm
SPOT 940NM	-SP.940nm
FLOOD 750NM	-FL.750nm
FLOOD 850NM	-FL.850nm
FLOOD 940NM	-FL.940nm

Housing Color	
BLACK	-BLK
WHITE	WHT

Links (Click on the below items to view):

- **Operations Manual**
- **HigResPic1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**