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HML-24E-VIR-M

72 Watt Handheld LED Light w/ Magnetic Base - Visible/IR Light - 24 LEDs - 72 Watts - 9-42VDC - MRAP

Product ID: 105022

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.

HML-24E-VIR-MLED Light Bar

LEDs: 12 Edixeon® & 12 Seoul® 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: 300`L x 280`W
Weight: 7.4 Lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: 200lb Magnetic Base w/ Control Handle
Wiring: 20` Cord w/ Deutsch Waterproof Disconnect
Amps: 6 (on 12 volts) 3 (on 24 volts)
Lumens: 4320
LED Light Color: Visible-6000K - Infrared- 750Nm, 850Nm or 940Nm
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
Materials: Aluminum Housing, Polycarbonate Lens
Housing Colors: Black or White

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

LEDLB LED Features

Infrared/Visible 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
CE Certified
EN55015 EMI
EN61547 EMS
EN62471 Photobiological Safety

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

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 HML-24E-VIR-M Handheld Magnetic Mount LED Light 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 HML-24E-VIR-Mvisible infrared LED light bar from Larson Electronics produces a combination light beam of visible and infrared 850Nm or 940Nm end of the light spectrum depending upon the version selected. 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. Twelve Edison Edixeon® 3 watt infrared emitters and twelve Seoul P4® visible white emitters arranged in rows and paired with high purity 10 degree optics to produce a tightly focused spot beam with limited spread or light spillage.

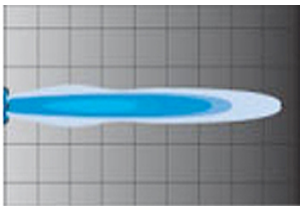
Click here to view an article on the Generations of Night Vision and Infrared.

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.

HML-24E-VIR-M
35° Flood Beam (Opt)



HML-24E-VIR-M
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. 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.
Mounting: These LEDLB LED light bars feature a small profile and light weight, making them ideal for use in locations where traditional lights cannot fit or would block other mounted equipment. This LED light emitter is mounted on an adjustable magnetic base with handle. This base is available with a 200 pound grip magnet for portability. The angle of tilt and rotation of the LED emitter light can be set by using the reverse pistol grip handle. The operator can easily set the light to any position and that position will remain in place until the user changes it.
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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HML-24E-VIR-M
Product ID: 105022

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

Options:
HML-24E-VIR-M-Beam Pattern-Wavelength-Housing Color
Example: HML-24E-VIR-M-S-750nm-BLK

Beam Pattern	
SPOT	-S
FLOOD	-F

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

Housing Color	
BLACK	-BLK
WHITE	WHT

Links (Click on the below items to view):

- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**