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PTB-2-1X24E-VIR

72W MRAP Light - Visible/IR Light - 24 LEDs - 900'L X 100'W Beam - 9-42V DC - Remote Control PT Base

Product ID: 221953

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.

PTB-2-1X24E-VIR Pan/Tilt Base Mounted LED Light Bar
LEDs: 24 Edixeon® 3 Watt LED Emitters
Dimensions: 8.25"-L 5.27"-H 3.57"-D
Weight: -
Voltage: 12V or 24V DC
Watts: 72W
Lumens: 4320
LED Life Expectancy: 50,000 hours
LED Light Color: Visible- 6000K - Infrared- 750Nm, 850Nm or 940Nm
Lighting Configuration: 10° Spot or 35° Flood
Spot Beam: 900`L x 100`W
Flood Beam: 300`L x 280`W
Optics Efficiency: 90%
Amps: 6A (on 12 volts) 3A (on 24 volts)
Ambient Operating Temp Range: -40 C~ +80C
Materials: Aluminum Housing, Polycarbonate Lens
Mount: Remote Control Pan/Tilt Base, Surface Mount via (4) Openings
Base Dimensions: 9.5" -OD x 8.99"-H
Housing Colors: Black or White

Ratings
Edixeon® 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

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The Larson Electronics PTB-2-1X24E-VIR LED Light Bar 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. Equipped with a remote control pan/tilt base, this light can run on any voltage from 12 or 24 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.

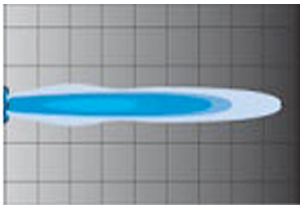
The PTB-2-1X24E-VIR visible infrared LED light bar from Larson Electronics produces a combination light beam of visible and infrared 850Nm or 940Nm end of the light spectrum depending upon the version selected. In spot configuration this combination LED emitter produces a 900` long by 100` wide infrared 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. Twenty-four Edison Edixeon® 3 watt emitters producing arranged in rows and paired with high purity 10 degree optics to produce a tightly focused 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 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.

PTB-2-1X24E-VIR 35° Flood Beam (Opt)



PTB-2-1X24E-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: This unit operates on 12V or 24V DC via individual +/- leads on the pan/tilt base allow operators to power the light and base from the same power source without running additional cabling. This remote control infrared light is offered in 12V or 24V DC. The PTB-2-1X24E-VIR is 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 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: Mounting for this unit is provided via four-corner thru-holes. This pan/tilt base will keep its position during storms and strong winds, and holds up to vibrations in vehicle and offshore applications. Hard wired and wireless remote controls are both included with the LED light. The wireless remote control is operated from the wireless key fob, is battery operated, and controls up, down, left, right, and on/off.

The internal gears of the unit provide no slip and no "slop" during operation, and the pan/tilt base holds its position after movement has stopped. The handheld wired remote is located close to the light, with wiring from the light leading to the power source. Two individual +/- leads on the pan/tilt base allow operators to power user provided equipment from the same power source without running additional cabling.

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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PTB-2-1X24E-VIR

Product ID: 221953

Export Control Classification Number (ECCN): EAR99

Options:

PTB-2-1X24E-VIR-Voltage-Beam Config-Wavelength

Example: PTB-2-1X24E-VIR-12VDC-SP-750NM

Voltage	
12V DC	-12VDC
24V DC	-24VDC

Beam Config	
SPOT	-SP
FLOOD	-FL

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

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **STEP File (3D CAD Model)**
- **HigResPic1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**