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**LE-9021-IR-2X1**

# Infrared Remote Control LED Spotlight - Permanent Mount, Weatherproof - Black

**Product ID: 223123**

**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.**

**LE-9021-IR-2X1 Infrared LED Light**
**Lamp Technology: Infrared LED**
**Dimensions:** -
**Remote Qty:** (1) Dash Mount Remote w/ 20' Cord
**Weight:** -
**Voltage: 9-42V DC**
**Total Watts:** 50W
**Candela:** -
**Beam Distance:** -
**Luminous Efficacy:** -
**LED Life Expectancy:** 50,000+ hours
**Infrared Output:** 750 nm, 850 nm or 940 nm
**Correlated Color Temperature:** -
**Beam Angle:** 8° Spot
**Lighting Configuration:** Spot
**Light Head Rotation:** 360° - Continuous
**Elevation Angle:** 135°
**Rotation Speed:** 19° per Second (Fast), 19° per Second (Slow)
**Elevation Speed:** 11° per Second
**Amps:** -
**Ambient Operating Temp Range:** -30°C to +70°C
**Housing Material:** Acrylonitrile Styrene Acrylate (ASA)
**Lens Material:** Hardened Polycarbonate
**Mounting: Surface**
**Wiring:** -
**Housing Color:** Black

**Ratings/Approvals**
IP68 Rated LED Module
IP56 Rated Housing
FCC Approved
Auto-Home Return

**Special Orders - Special Requirements**
Contact us for special requirements
**Toll Free: 1-800-369-6671**
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**The LE-9021-IR-2X1 Remote Control Infrared LED Spotlight from Larson Electronics is designed for covert applications in outdoor areas. This 50-watt infrared LED light comes with a remote for pan and tilt control and features a durable black finish. Designed to operate on 9-42V DC, the unit is compatible with surface mounting installations.**

The LE-9021-IR-2X1 is designed for use in all weather conditions and outdoor locations. A total of ten, 5-watt LEDs provide an 8° spot light beam during use. Offered in 750 nm, 850 nm or 940 nm infrared wavelengths, this unit features remote control operation by a hard wired dash mounted remote control. This unit rotates at a rate of 19° per second in fast mode and 12° per second in slow mode, as well as elevates at a rate of 11° per second. The LED module carries an IP68 rating and the housing is IP56 rated. Equipped with an acrylonitrile styrene acrylate (ASA) housing, the lens is made out of hardened polycarbonate.

**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.

**Remote:** This unit comes with one hardwired remote control. The remote allows operators to turn the spotlight on and off and toggle the movement speed between slow and fast. Joystick controls allow for up, down, left, and right movement.

**Mounting:** This light is compatible with surface mounting installations.

**Applications:** Outdoor locations, vehicles, boats, law enforcement, emergency services, and more.

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)

**Q. Should I order a 12V or 24V light?**

A. Most customers need a 12V light. Standard vehicles and ATVs operate on 12V. Military vehicles operate on 24V. 24V does not mean it will be brighter. Operating a 24V light on a 12V power source will make halogen lights half as bright while LED lights will not operate. The motors will rotate very slowly and the light will appear broken.

**Q. I purchased a military surplus 24V light, can you convert it to 12V?**

A. The light can have the internal board converted to 12V. A cheaper and faster solution is to purchase our 12V to 24V transformer (part # DCP-12x24-10A-WP). This will be wired between the power source and light, and allow the 24V light to operate on a 12V vehicle.

**Q. Can you repair my light for me?**

A. Yes we can. Before sending in your light for repair, you must obtain a Return Authorization Number and include the RGA form in the packaging with your light. Service repair fees may apply.

**Q. Are replacement parts available for my existing light?**

A. Yes. Replacement parts are available for most models. You can purchase them directly from our website, or contact sales.

**Q. What is the amp draw of my light?**

A. Halogen lamps draw 5.5 amps at 12V DC. LED lamps draw 3.7 amps at 12V DC.

**Q. Can I purchase a longer remote harness for my light with a hard wired remote?**

A. Yes. We offer replacement cable and extension cable in 20-foot and 32-foot. An extension cable will plug in between your existing cable and the light. A replacement cable fully replaces your existing cable. Part numbers for these cables by product. Contact sales to purchase extension or replacement cables.

**Q. Can I control one light from two remotes?**

A. Yes. For wireless remotes, both remotes must be programmed to the same light. See reprogramming instructions on GL-30100 for how to do this. For hard wired lights (excluding GL-5XXX series), a X-splitter cable is needed. Part numbers for X splitter varies by product. Contact sales to purchase an X-splitter cable.

**Q. Can I control multiple lights from one remote?**

A. Yes. For wireless remotes, both lights must be programmed to the same remote. See reprogramming instructions on GL-30100 for how to do this. For hard wired lights (excluding GL-5XXX series), a Y-splitter cable is needed. Part numbers for Y splitter varies by model. Contact sales to purchase a Y-splitter cable.

**Q. How long is the power cord?**

A. For permament mount lights with wireless remotes, a 1-foot power cord is provided with tinned leads ready for installation. For portable models, a 15-foot power cord with a universal 12V cigarette plug is provided. We offer alternative cords for portable models that can be purchased separately, including ring terminals and battery clamps. For permament mount lights with hard wired remotes, we offer 20-foot and 32-foot remote cables.

**Q. Can I convert my hardwired light to a wireless remote?**

A. If the light was originally manufactured as both wireless and hard-wired, you can purchase a replacement remote and program it to your light. If you purchased a military spec 24V light with no transceiver, the light cannot be converted to wireless.

**Q. For wireless remotes, what is the operating distance and frequency?**

A. The wireless handheld and wireless dash mount remotes operate up to 100' distance away from the light. The remote operates on 433 Mhz.

**Q. What remote options are available for the Radioray?**

A. We offer wireless handheld, wireless dash mount, and hard wired dash mount remotes for the GL-2XXX, GL-7XXX, and GL-9XXX series. The GL-5XXX series is only offered with a hard wired in-line remote.

**Q. I own a halogen Radioray. Can I upgrade to a LED light or do I need to purchase a new light?**

A. Yes. Halogen lights can be upgraded to LED by purchasing the GL-15444 LED module. This is compatible with GL-2XXX, GL-5XXX, GL-7XXX, and GL-9XXX models.

**Q. What is the difference between Radioray and Radioray GT models?**

A. The Radioray GT series was introduced in 2019. The upgraded Radioray GT series features: updated exterior housing, higher torgue drivetrain, more precise pan/tilt control, upgraded stainless steel mounting bracket, enhanced resistance to vibration and impact, and new wiring harness.

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**LE-9021-IR-2X1**

**Product ID: 223123**

**Export Control Classification Number (ECCN):** EAR99

**Options:**

**LE-9021-IR-2X1-Beam Angle-Wavelength**

**Example: LE-9021-IR-2X1-SP-750NM**

| Beam Angle | |
|---|---|
| SPOT | -SP |
| FLOOD | -FL |

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

Links (Click on the below items to view):

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