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RCL360-LED-2R-IR850

12W Motorized Infrared LED Spotlight - 12V DC, 850 nm Wavelength - (2) Wireless Remotes, Removable U-bracket Mounting Base

Product ID: 292756

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.

Made In USA, Manufactured in Texas- Buy American Compliant

RCL360-LED-2R-IR850 LED Spotlight

Lamp Technology: Infrared LED
Dimensions: 9"L x 9.25"W x 15"H
Weight: 20 lbs
Voltage: 12V DC
Total Watts: 12W
Measurements (5' from Lens): 850 nm Spot - 1270 uWatts/cm^2
Luminous Efficacy: -
LED Lamp Life Expectancy: 50,000 Hours
IR Wavelength: 850 nm
Color Rendering Index: -
Lamp Type: Infrared LED
Lamp Base: -
Replacement Lamp: -
Beam Angle: 10° Spot Optics
Lighting Configuration: Spot Beam
Power Efficiency: -
Power Factor: -
Rotation: 360° Endless Horizontal Rotation, 310° Vertical Rotation
Wireless Remotes: (2) w/ 100' Range

Ratings/Approvals

Made in USA
Buy American Compliant
American Made
No ITAR Requirements for Exportation (No Cutoff Filter)
(2) Wireless Joystick Remote Controls, 100` Range
IP66 Rated Assembly
IP68 Rated Light Head
Weatherproof Light
Suitable for Outdoor and Fresh Water Applications
Ice and Snow Resistant

Remote Control Type: Touch Sensitive Joystick Positioning

Amps: 5A Maximum

Operating Temp Range: -20°C to +60°C

Housing Materials: CNC Machined T6061 Billet Aluminum

Housing Finish: Anodized Aluminum - Black

Internal Parts Materials: Brass, Stainless Steel and Black Oxide Coated Internal Components for Corrosion Resistance

Internal and External Hardware Materials: Stainless Steel

Pivot Shaft Materials: 316 Stainless Steel

Protection: Gasketed Base and Light Head, Resin Potted Electrical Boards

Gears: Metal

Mounting: Removable Rubber Coated U-bracket Mounting Base

Wiring: -

Special Orders - Special Requirements
Contact us for special requirements

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This unit is Made In USA - American Made, Buy American Compliant

The Larson Electronics RCL360-LED-2R-IR850 Motorized Infrared LED Spotlight is a powerful and durable lighting solution for extreme environments. This 12-watt unit generates an 850 nm infrared beam during use and comes with two wireless, touch sensitive joystick remotes. Designed to operate on 12V DC, the American Made LED spotlight is protected by a black CNC machined T6061 billet anodized aluminum housing and has a removable rubber-coated, U-bracket mounting base for installation on flat surfaces. This weatherproof IP66 rated assembly is suitable for outdoor and fresh water locations, and is resistant to ice and snow.

The RCL360-LED-2R-IR850 is designed for covert operations in outdoor areas requiring a tight spot infrared beam. This 12V DC LED light offers 850 nm infrared light. The 12-watt LED light generates a 10-degree spot infrared beam. Compared to other spotlights that cut off vertically, this unit provides 310 degrees of vertical rotation and can be pointed directly upwards. The spotlight also offers 360 degrees of endless horizontal rotation. The light head can rotate continuously in one direction and does not need to stop and go back to the other direction, resulting in faster light placement and reaction. Repositioning the light head manually by hand does not damage the gears.

This infrared light is manufactured in Texas and is American made. The product is not an imported unit manufactured in another country. The infrared light does not have a cutoff filter, resulting in no ITAR requirements for exportation.

Infrared Light: Infrared is used in military applications and does not produce any visible white light illumination. The 850 nm infrared band is only visible with night vision equipment. This light fixture has a slight red/pink glow due this specific infrared wavelength. We offer 750 nm and 940 nm versions of this motorized infrared LED light. The 940 nm wavelength does not have a visible glow from the light fixture, making it ideal for complete blackout operation.

Infrared LED lights are better than halogen or HID lamps with cutoff or bandpass filters because all infrared light produced by infrared LEDs is usable. Only 80%+ of infrared light generated by halogen or HID lamps with cutoff or bandpass filters is usable. This makes infrared LED lights more efficient. Without the need for a cutoff filter with infrared LEDs, there are no issues or risks with cutoff filters breaking in the field which enhances its reliability.

Durability: This LED spotlight is protected by a CNC machined T6061 billet aluminum housing with a black anodized finish. The housing does not use cast aluminum or plastic and is designed to withstand rugged use or corrosive environments. Billet aluminum is stronger than cast aluminum, as it originates from one block of material which is fabricated using a CNC mill during the manufacturing process. The material is not melted down and molded to ensure precise design components.

The internal components are brass, stainless steel and black oxide coated for durability and corrosion resistance. Internal gears are metal and not plastic. Internal and external hardware components are stainless steel, while the pivot

shaft is 316 stainless steel. The base and light head are gasketed for protection. Electrical boards inside the system are resin potted for resistance to water.
The RCL360-LED-2R-IR850 is an IP66 rated assembly with an IP68 rated LED light head. This weatherproof light is suitable for use in outdoor and fresh water locations. Recommended for extreme environments, the system is ice and snow resistant. Rough handling or hard impacts will not damage the light head, gears or internal assembly parts.
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.
Wireless Remote Operation: Two wireless remotes are included with this LED spotlight. The variable speed remotes have a 100' range and feature touch sensitive joystick controls. Applying more pressure on the joystick makes the light head move faster, and applying less pressure slows down the movement.
Power: This light draws 5 amps maximum on 12V DC.
Mounting: The RCL360-LED-2R-IR850 features a removable rubber coated U-bracket mounting base. The rubber coating prevents scratching on the surface during installation, as well as provides a seal for routing wire. Operators can install the base first on a preferred surface and then secure the light onto the mounting bracket.
Applications: This high power LED spotlight is ideal for hunting, security, boating, law enforcement, emergency services, utilities, and anywhere high power and remote control functionality are desired. This unit produces a more powerful and far reaching beam than halogen spotlights and uses less power on a 12 volt system, making it suitable for vehicles and boats where power supply is limited.
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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Product ID: 292756

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

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