Larson Electronics LLC www.LarsonElectronics.com sales@larsonelectronics.com
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RCL360-LED-40



INTRODUCTION

Encased in a durable hard anodized aluminum and stainless steel housing with high power LEDs and patented optics and electronic technology, this searchlight produces concentrated, high intensity and focus-adjustable brilliant light beams up to 3,888'. These light function under the most severe and harsh conditions. This versatile searchlight is suitable in a wide range of applications including search, rescue, riot control, firefighting, military, border patrol, marine, vehicles, planes, drones, airport, seaports, transportation stations, public areas, jails, sports and any outdoor activities.

These searchlights are available in 40W and 80W models. Constant current voltage technology optimizes power from any rechargeable battery for extended portable use and ensures light beam to remain steady regardless of battery discharging status. For example, a 24V 26AH rechargeable battery can power a 40W light continuously at regular intensity for up to 60 hours. This light may also be powered directly by an optional 110/220 VAC to 12/24 VDC converter. An optional adapter cable is available to connect these searchlights to cigarette lighter sockets of automobiles. A specially coated telescope grade lenses project even illuminating and focus-adjustable light beams suitable for both long distance illumination at minimum beam angle (spot mode) or near-field peripheral illumination at a wider beam angle (flood mode).

Two groups of multiple lights can be controlled by a single handheld wireless remote control. The controller can change the light beam angle and cycle operation modes through: Steady Light – Strobe – SOS. The remote control can also control the panning and tilting of the light. With the pan-tilt, the searchlight can be controlled to cover surrounding space in all hemispherical directions. The wireless operation does not interfere with other wireless applications. IPX6 waterproof rating keeps out moisture and dirt.

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CAUTION

- Read this instruction manual before using the searchlight to avoid accidental damage to the light. If unusual situations arise during normal use, disconnect the power source immediately and contact the dealer for help.
- These lights are maintenance free. Pay attention to the power indicator light on the remote control. If the red indicator light beneath the “Remote Control Power Switch” starts to blink, the built-in battery should be recharged.
- The cigarette lighter adapter cable should be used with the cigarette lighter power outlet. If generic cable is used and the power rating is not high enough, the cable may be over heated and cause a fire.
- The protective glass on this searchlight is tempered and multi-coated for higher light transmission rate. Avoid hitting the glass with any object and keep the glass clean for better performance.
- The operating temperature of this light is between -20°C and +45°C. Pay special attention to the normal functioning of the light when it is used in extreme high or low temperatures beyond that range.
- The magnetic mount can withstand wind speed up to 60 mph. We DO NOT recommend operating a magnetically mounted light on any object that may move at a high speed.

STROBE WARNING

Exposure to strobe lights may cause dizziness, disorientation, and nausea. A small percentage of people suffer from photosensitive epilepsy, and may experience seizures or blackouts triggered by strobe lights. Anyone who has had symptoms linked to this condition should consult a doctor before using this product.

BRIGHT LIGHT WARNING

This light has super high intensity and concentrated illuminating power and can cause short-term to long-term eye damage if looking directly into the light. To avoid eye damage, never point the light beam at the eyes of any person or animal.

POWERING THE LIGHT

Cigarette Lighter

Connect the waterproof connector of a cigarette lighter adapter cable (optional accessory) to the power input socket of the light. Make sure the notch at the connector and the opening of the socket are aligned. Turn the waterproof locking nut clockwise until the nut is tight. Plug the cigarette lighter adapter at the other end of the cable into the cigarette lighter of an automobile.

CAUTION: Make sure the output voltage of the cigarette lighter (12V or 24V) matches the input voltage of the light. Some vehicles provide 12VDC output while some vehicles provide 24VDC output. Order the light to be suitable for your vehicle. Connecting a power source of wrong voltage to the light can damage the light permanently.

AC Adapter

Connect the waterproof connector of a cigarette lighter adapter cable to the power input socket of the light. Make sure the notch at the connector and the opening of the socket are aligned. Turn the waterproof locking nut clockwise until the nut is tight. Plug the AC plug of the adapter into an AC outlet socket. Our certified AC adapter is auto-switched between 100-240 VAC power supplies.
CAUTION: Make sure the output voltage of the AC power adapter matches the input voltage of the light. Connecting a power source of wrong voltage to the light can damage the light permanently.

DC Power Source Directly

According to your application, you may prefer connecting to a DC power supply such as a portable DC battery or DC generator. First, cut the waterproof connector off the input cable extruding from the base of the light. Prepare the wires for direct connection. Make sure your DC power supply is turned off while connecting the wires. You can consider adding a switch to the DC power source circuit to turn power to the light on/off easily. Securely connect the exposed RED wire from the pan-tilt to the positive terminal of the connection cable from your DC power source. Securely connect the exposed BLACK wire form the pan-tilt to the negative terminal of the connection cable from your DC power source. Insulate the connections to avoid any electrical shortage. Turn on your DC power source to turn on the light. CAUTION: This option must be performed by a licensed electrician. Make sure the output voltage of the DC power source matches the input voltage of the light. Also make sure the polarities of the connections are positive to positive and negative to negative. Connecting a wrong voltage or wrong polarity to the light can damage the light permanently.

MOUNTING THE LIGHT

Permanent Mount on a Board

Typical application of this method is permanently mounting the light on the roof of a vehicle, a boat, a tower, or a building. These searchlights are usually mounted in an upright position for waterproofing and maximum tolerance to impact forces. If a highly mounted searchlight needs to illuminate the area below, the light can be mounted upside down with an optional mounting pan. However, the tolerance to impact forces is reduced when the light is mounted upside down. We **DO NOT** recommend mounting these lights upside down due to the weight of the light. The following instructions apply to mounting the light in the normal upright position. The electrician must plan ahead to prepare the appropriate DC power supply and its switching to the light before applying this mounting method.

There are four pre-drilled holes at the bottom of the pan-tilt.

1. Mark the centers of the four holes on the board according to the layout.
2. Drill four holes of appropriate diameters on the thin board.
3. Choose stainless steel metric bolts with suitable length and diameter (not provided) base on the thickness of the board or the wall. The pre-drilled hole is M6x1x80 for the 40W and M8x1x80 for the 80W. Stainless steel metric bolts are recommended. The chosen bolt should be slightly shorter than or equal to the thickness of wall +80mm.
4. Tighten the bolts onto the light through the drilled holes.

CAUTION: Make sure the voltage of the power supply matches the input voltage of the light. Connecting a power source of wrong voltage to the light can damage the light permanently. Also make sure the chosen bolts are of proper length and specification. If bolts are too short, too long, or to small, the light may not be secured properly.

Flat Surface with Easy Mount

Easy Mount is only available for the 40W models. There are two installation options to use the Easy Mount (optional accessory). Four special lug bolts are shipped with an Easy Mount.

Option 1: Mount Locking Base of Easy Mount Permanently on Flat Surface

Typical application of this method is where the locking base of the standard Easy Mount is permanently mounted on a flat surface while the light can be attached or detached quickly for security and storage purpose. Tighten four stainless steel M6 screws of appropriate head size and length (not supplied) at the four outer holes on the locking base of the Easy Mount onto the flat surface. The locking base will be left in place on the flat surface permanently.

Option 2: Attach Locking Base of Easy Mount Temporarily on a Flat Surface by Magnets

Typical application of this method is where the flat surface is ferrous and suitable for magnetically attached heavy equipment securely. The light is securely tightened on the locking base of the Easy Mount with Magnets. There are four magnets permanently installed at the bottom of the locking base of the Easy Mount. Refer to below instructions for mounting the light onto Easy Mount. The whole assembly of the Easy Mount with the light securely mounted Is quickly attached to or detached from the flat surface.

CAUTION: We do not recommend that the whole assembly is left on the surface while the underlying object moves. We cannot warrant the safety of this mounting method because we cannot predict the ferrous condition of the surface. This mounting method is used at customers own risk. Excessive speeds may cause the light to fly off of the moving object. Please consider mounting the locking base permanently as an alternative.

Mounting Light on Easy Mount

1. Tighten the four special lug bolts into the four pre-drilled holes underneath the pan-tilt by turning clockwise.
2. Turn knob of the locking bolt counterclockwise to loosen the movable plate of the Easy Mount.
3. Dial lever counterclockwise to align the four holes on the movable plate to the bigger side of the four corresponding keyholes on locking base.
4. Insert the four lug bolts underneath the pan-tilt into the aligned holes on the Easy Mount. You may prefer to place the light so that the power input cable of the light faces the 'back side" of your installation. Because the light can pan in all directions, it does not really matter which what the light is placed on the Easy Mount.
5. Dial lever clockwise to align the four holes on the movable plate to the smaller side fo the four corresponding keyholes on locking base. Turn the knob of the locking bolt clockwise until tight to tighten the movable plate of the Easy Mount. Make sure the light is locked in place.
6. Connect the power to the light according to the instructions in the Connecting Power to the Light section. The light is ready to use.

Dismounting the Light from Easy Mount

1. Disconnect power from the light.
2. Turn knob of the locking bolt counterclockwise to loosen the movable plate of the Easy Mount.
3. Dial the lever counterclockwise to align the four holes on the movable plate to the bigger side of the four corresponding keyholes on locking base.
4. Dismount the light from the locking base of the Easy Mount. Store the light in a secure place.

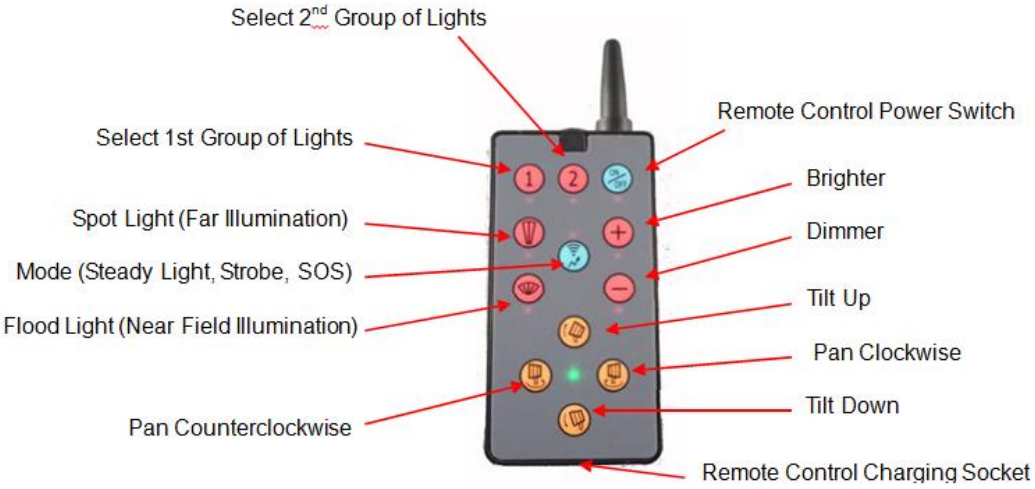
Self-Reset of the Light

Whenever power to the light is turned on, the light will start a self-resetting procedure. The light will blink once. The pan-tilt will pan and tilt the light and automatically set the light to a neutral position. CAUTION: During the self-resetting process, **DO NOT** try to stop the automatic movement by force. **DO NOT** use the remote control to attempt to control the light functions and **DO NOT** remove power to the light. After several seconds, the light will stop and then will be ready to use.

REMOTE CONTROL

Each light comes with one wireless handheld remote control.

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Charging Remote Control

The remote control is equipped with a built-in lithium rechargeable battery. A USB charging cable is included with each wireless remote control. When the remote control is on and the red indicator light beneath the “Remote Control Power Switch” starts to blink, the built-in battery should be recharged. Plug the charging cable into the “Remote Control Charging Socket” at the bottom of the remote control. Connect the USB end into any USB power source such as a USB charger (not included) or a USB power output from a computer (not included). A red indicator light near the bottom edge will come on. This indicator light will become green when charging is complete. Unplug the USB cable. Charing the remote control only when the red light starts to blink will extend the useful life of the rechargeable battery. A rechargeable battery is usually good for about 1,000 charges.

Power ON/OFF Remote

While the remote control is off, press and hold “Remote Control Power Switch” until a green indicator light comes on. Red lights under “Select 1st Group of Lights” and other function buttons will come on as well. Remote control is ready to be used.

Change Light Intensity

The light has three brightness levels: High Intensity, Medium Intensity, Regular Intensity. Press “Brighter +” button to increase the light intensity. Press “Dimmer –“ button to decrease the light intensity or until the light is turned off.

Change Mode

Pressing the “Mode” button can cycle the light through three different modes: Steady, Strobe, and SOS.

Use as Spot Light

Pressing the "Spot Light" button will narrow the beam angle. The light beam will be more focused and is suitable for far illumination.

Use as Flood Light

Pressing the "Flood Light" button will widen the beam angle. The light beam will be a wider spread and is suitable for near-field peripheral illumination.

Pan Light

Press the "Pan Clockwise" or "Pan Counterclockwise" button to rotate the light up 355° clockwise or counterclockwise.

Tilt Light

Pressing the "Tilt Up" or "Tilt Down" button will tilt the light up or down between -30° to +180°.

Control Groups of Lights

Each remote can be programmed to control two groups of lights. Each group can include unlimited number of lights. A light can only be assigned to one group of one remote control. Press "Select 1st Group of Lights" button to select group one of lights. Press "Select 2nd Group of Lights" button to select group two of lights. The two groups can be selected individually or together. When a group selection button is on (selected), the remote control functions will apply to all of the lights included in that group. NOTE: While a remote control can pair with many lights, a light can be paired with one Select Group button of one remote control. Always send a light together with its paired remote control. If a light is paired with a new remote, the old remote will not work with that light anymore.

Pair a Light with a Remote Control

Each remote control has a programming magnet on the upper left corner. There is N-Mark below the antenna of a light. Follow the steps below to pair a light with a group of a remote control:

a) Make sure the remote control is turned off.
b) Continuously touch the programming magnet on the remote control to the N-Mark of the light.
c) Connect and turn on power to the light while holding the magnet on the N-Mark. The light will not start the self-reset process. Instead the light will blink. Once the light blinks, the programming magnet does not need to touch the N-Mark.
d) While pressing and holding down one of the two "Select Group of Lights" buttons, press and hold the "Remote Control Power Switch" until a green indicator light comes on.

e) Release the “Remote Control Power Switch” first. Release the “Select Group of Lights” button next. The red indicator light under the chosen “Select Group of Lights” button will blink.
f) Press “Remote Control Power Switch” once. The red indicator light under the chosen “Select Group of Lights” button will become steady.
g) Press “remote Control Power Switch” again. The light will be off and starts its self-reset process. The programming is finished.
h) TEST SETUP: Use the remote control to operate the light with the chosen group. If the pairing process is unsuccessful, redo Steps A-G.