



Installation and Operation Instructions

REMOTE SPOTLIGHT

IMPORTANT! Read all instructions before installing and using. Installer: This manual must be delivered to the end user.



WARNING!

Failure to install or use this product according to manufacturer's recommendations may result in property damage, serious injury, and/or death to those you are seeking to protect!

Do not install and/or operate this safety product unless you have read and understood the safety information contained in this manual.

1. Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of emergency personnel and the public.
2. Emergency warning devices often require high electrical voltages and/or currents. Exercise caution when working with live electrical connections.
3. This product must be properly grounded. Inadequate grounding and/or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.
4. Proper placement and installation is vital to the performance of this warning device. Install this product so that output performance of the system is maximized and the controls are placed within convenient reach of the operator so that they can operate the system without losing eye contact with the roadway.
5. Do not install this product or route any wires in the deployment area of an air bag. Equipment mounted or located in an air bag deployment area may reduce the effectiveness of the air bag or become a projectile that could cause serious personal injury or death. Refer to the vehicle owner's manual for the air bag deployment area. It is the responsibility of the user/operator to determine a suitable mounting location ensuring the safety of all passengers inside the vehicle particularly avoiding areas of potential head impact.
6. It is the responsibility of the vehicle operator to ensure daily that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the warning signal is not blocked by vehicle components (i.e., open trunks or compartment doors), people, vehicles or other obstructions.
7. The use of this or any other warning device does not ensure all drivers can or will observe or react to an emergency warning signal. Never take the right-of-way for granted. It is the vehicle operator's responsibility to be sure they can proceed safely before entering an intersection, drive against traffic, respond at a high rate of speed, or walk on or around traffic lanes.
8. This equipment is intended for use by authorized personnel only. The user is responsible for understanding and obeying all laws regarding emergency warning devices. Therefore, the user should check all applicable city, state, and federal laws and regulations. The manufacturer assumes no liability for any loss resulting from the use of this warning device.

Specifications:

EW300X

Peak current draw: 2.1A @ 12VDC

Max power: 25.2W @ 12VDC

EW301X

Peak current draw: 4.6A @ 12VDC

Max power: 55.2W @ 12VDC

Installation & Mounting:

Carefully remove the unit from its packaging. Examine the unit for transit damage. If damage is found, return the product to your local dealer for warranty replacement. Do not use damaged or broken parts.

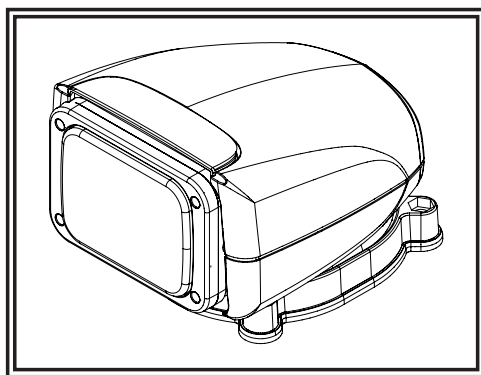
CAUTION!
When drilling into any vehicle surface, make sure that the area is free from any electrical wires, fuel lines, vehicle upholstery, etc. that could be damaged.

- Notes:**
1. Larger wires and tight connections will provide longer service life for components. For high current wires it is highly recommended that terminal blocks or soldered connections be used with shrink tubing to protect the connections. Do not use insulation displacement connectors (e.g., 3M Scotchlock type connectors).
 2. Route wiring using grommets and sealant when passing through compartment walls. Minimize the number of splices to reduce voltage drop. All wiring should conform to the minimum wire size and other recommendations of the manufacturer and be protected from moving parts and hot surfaces. Looms, grommets, cable ties, and similar installation hardware should be used to anchor and protect all wiring.
 3. Fuses or circuit breakers should be located as close to the power takeoff points as possible and properly sized to protect the wiring and devices.
 4. Particular attention should be paid to the location and method of making electrical connections and splices to protect these points from corrosion and loss of conductivity.
 5. Ground termination should only be made to substantial chassis components, preferably directly to the vehicle battery.
 6. Circuit breakers are very sensitive to high temperatures and will "false trip" when mounted in hot environments or operated close to their capacity.

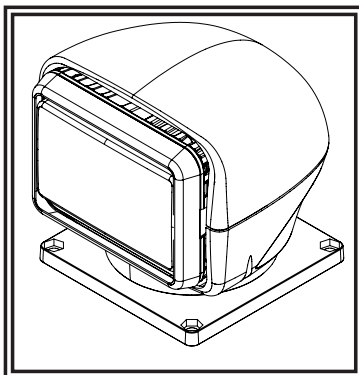
Permanent Mounting:

Mount the light so the wire exit on the base is facing the front of the vehicle. When the light returns to the default position, the lens is facing the rear.(EW301X)

1. Select a level surface for installation.
2. Drill mounting holes using the base as a template and attach with included hardware.



EW300X



EW301X

Wiring:

IMPORTANT! Disable power before wiring the product.

The wiring for this configuration is as shown in Figure 1 below. All wiring should be a minimum of 18AWG. The positive line must have a 5 amp fuse for EW300X and an 8 amp fuse for EW301X, as shown. Routing the ground wire directly back to negative battery terminal is recommended. Pack dielectric grease, such as Dow Corning 4, around each electric connection exposed to moisture or the ambient environment.

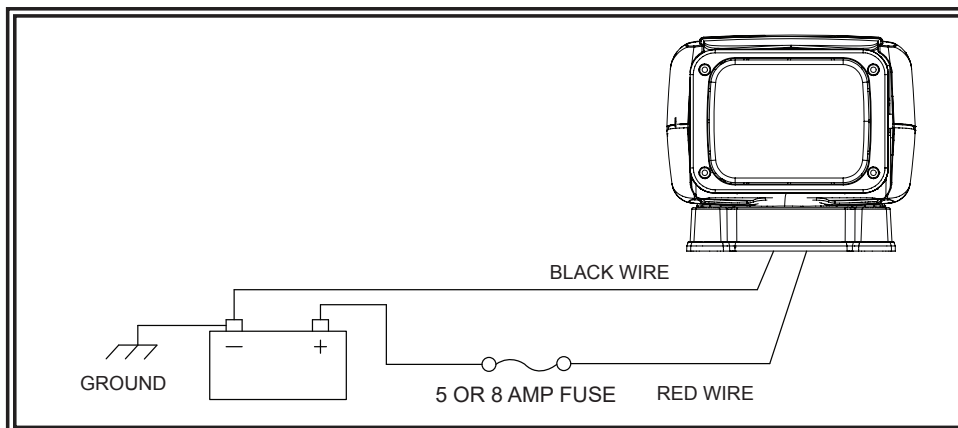
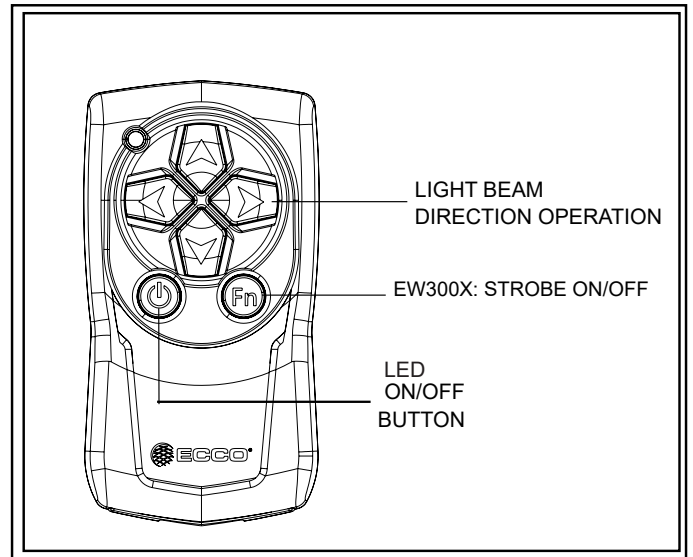


Figure 1

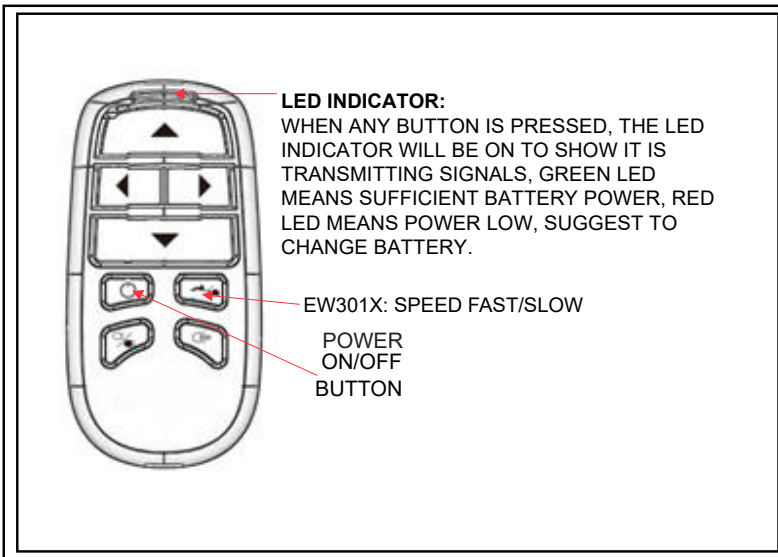
Remote Control Operation for EW300X:

Wireless Remote: Pairing and Programming

1. All remotes operate at 433.92MHz. Operating more than one wireless remote in close range will cause interference with other units if paired incorrectly.
2. Power off the spotlight by removing the fuse or disconnecting from main power. Install the fuse or reconnect to main power, then press the ▲ and ▼ buttons simultaneously within 5 seconds.
3. When programming is successful, the spotlight will flash 1 to 4 times. Each flash represents which memory slot the wireless remote is programmed to.
4. One wireless remote can be programmed to 4 spotlights. The spotlight will remember up to 4 wireless remotes.
5. To program more than one remote, follow existing steps to pair remote within initial 5 seconds of power up.
6. Each unit can be controlled by a single remote if the single remote is paired through all four channels as directed above. This means one vehicle can control up to 4 spotlights with four different remotes.
7. The optional in-dash controller will override the wireless remote.
8. In open air with full powered 23A batteries, the wireless remote will have a 65M range.



Remote Control Operation for EW301X:



Button Functions:

(All buttons have LED back light, when pressed, the LED back light will light up)

1. Directions: ▲ Up, ▼ Down, ◀ Left, ▶ Right

Use the direction buttons to rotate or tilt the light.

2.  Main Power:

Press power button once, power will be on, the light is able to rotate or tilt (LED will not be on), press one more time, power will be off, the light will rotate to the back and tilt all the way down (return to home position).

3.  Fast/Slow:

Using this button to switch movement speed.

4.  LED on/off:

When main power is on, the LED light can be turn on or off using this button.

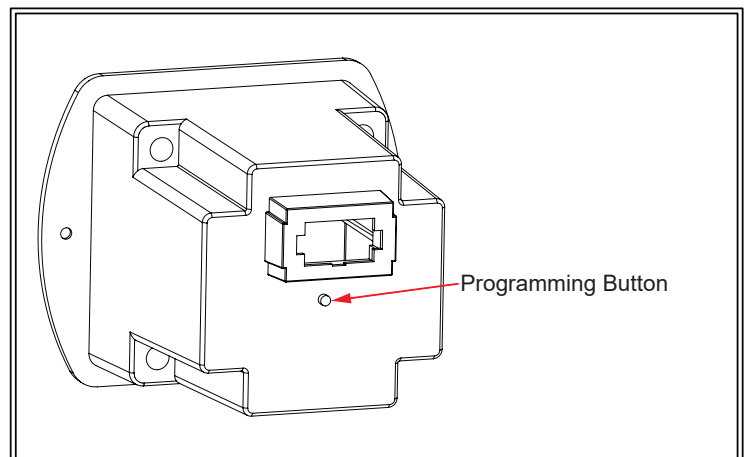
5.  Strobe:

When LED light is on, using this button to let LED flash as warning signal.

NOTE: The light beam direction is adjustable while the spotlight is off.

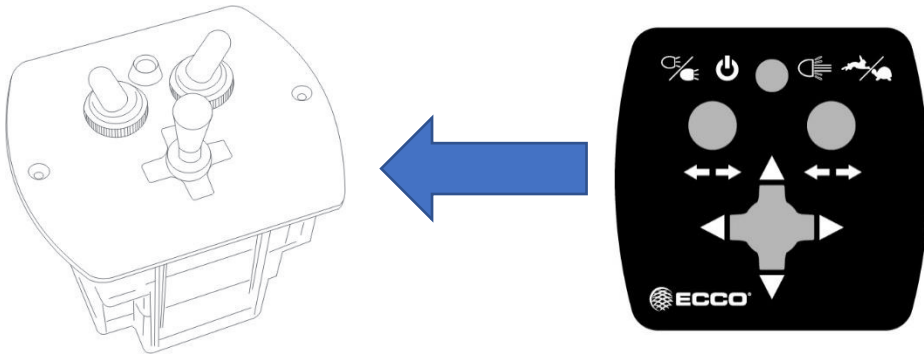
Wireless Joystick Programming Process:

1. Operating more than one wireless remote in close range will cause interference with other units if paired incorrectly.
2. The wireless joystick control must remain connected to power during the pairing process.
3. Power off the spotlight by removing the fuse or disconnecting from main power. Install the fuse or reconnect to main power, then press the programming button on the rear side of the joystick control within the initial 5 seconds of powering up.
4. When programming is successful, the spotlight will flash.
5. To program more than one remote, follow existing steps to pair remote within initial 5 seconds of power up.



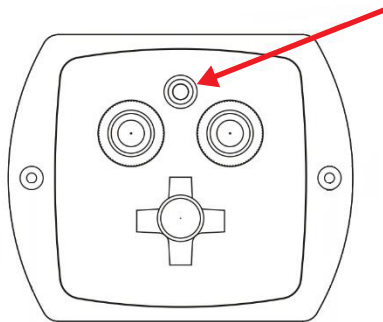
Joystick Control Operation for EW301X:

● Wired Dash Mount Joystick Control



LED Power Indicator:

This LED power indicator will be steady on when main power is on to show the light is power on and is able to rotate or tilt.



NOTE: The light beam direction is adjustable while the spotlight is off.

Joystick Functions:

1. Directions: ▲ Up, ▼ Down, ◀ Left, ▶ Right

Switch the joystick to above directions to rotate or tilt the light.

2.  Main Power:

Push the switch to the icon once, power will be on, the light is able to rotate or tilt (LED will not be on), press one more time, power will be off, the light will rotate to the back and tilt all the way down (return to home position).

3.  Fast/Slow:

Push the switch to the icon to switch movement speed.

4.  LED on/off:

When main power is on, the LED light can be turned on or off by pushing the switch to the icon.

5.  Strobe:

When LED light is on, push the switch to the icon to flash the LED as warning signal.

All replacement parts or accessories can be found in the catalog, product data sheet, or ECCO website.



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

Electronics Controls Company "ECCO" (Manufacturer)

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