

5500 Series - Reflex™ LED Minibars provide a compact yet powerful warning solution that offers the flexibility of either permanent or vacuum-magnet mounting. The 5500 Series features 12-24 VDC operation, uses reflector technology to maximize light output, and offers multiple flash patterns including double, quad, quint, rotate and random.



**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 manufacturers 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 understand 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 you and those you are trying to protect.
2. 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 are 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 s/he can operate the system without losing eye contact with the roadway.
5. It is the responsibility of the vehicle operator to ensure during use 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.
6. The use of this or any other warning device does not ensure all drivers can or will observe or react to a warning signal. Never take the right-of-way for granted. It is your responsibility to be sure you can proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, walking on or around traffic lanes.
7. This equipment is intended for use by authorized personnel only. The user is responsible for understanding and obeying all laws regarding warning signal 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:**

Size:	5565 A VA1, 5565 CA VA1	380 x 229 x 63.5mm	Current Draw:	
	5565 A VA2, 5565 CA VA2	380 x 229 x 63.5mm		2.7 Amps Maximum
	5565 A VAMAG, 5565 CA VAMAG	380 x 229 x 79mm		Maximum power consumption: 35 watts
Weight:	Permanent mount	approx. 1.5kg (3.4 lbs).	Output Power(total):	
	Vacuum-Magnet Mount	approx. 2.6kg (5.7 lbs).		600 Candela Seconds Maximum
Input Voltage:	12 to 24 VDC systems		Temp. Range:	-30°C to +50°C

## Installation & Mounting:

**Important!** This unit is a safety device and it must be connected to its own separate, fused power point to assure its continued operation should any other electrical accessory fail.

Carefully remove the Minibar and place it on a flat surface. Examine the unit for transit damage, and locate all parts. If damage is found, or parts are missing, contact the transit company or Vision Alert. Do not use damaged or broken parts.

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

## Permanent Mounting:

### Single Bolt

1. Select the desired location on a flat surface for the minibar to be mounted.
2. Drill  $\varnothing 13\text{mm}$  hole for bolt in central location.
3. Remove nut/ shakeproof washer/ washer from bolt.  
(rubber spacer to stay on bolt above mounting surface)
4. Place lightbar on roof with wires and bolt through the hole.
5. Ensure bolt head is located correctly in base moulding.
6. Re-apply washer/ shakeproof washer/ nut on underside of mounting surface and tighten nut to 5Nm.
7. Connect the wires as shown in the wiring section (see Figure 2).

### Double Bolt

1. Select the desired location on a flat surface for the minibar to be mounted.
2. Drill 2x  $\varnothing 13\text{mm}$  holes for bolts (Holes have 241.5mm centres).
3. Remove nuts/ shakeproof washers/ washers from bolts.  
(rubber spacer to stay on bolt above mounting surface)
4. Place lightbar on roof with wires and bolts through the holes.
5. Ensure bolt heads are located correctly in base moulding.
6. Re-apply washers/ shakeproof washers/ nuts on underside of mounting surface and tighten nuts to 5Nm.
7. Connect the wires as shown in the wiring section (see Figure 2).

## Vacuum-Magnet Mount:

The Vacuum-Magnet Mount feature includes suction cups on the bottom of the minibar, with a magnet inside of the suction cup, for a secure, temporary mount. The minibar should be placed in the center of the roof where the least amount of curvature occurs. Before installing, make sure the mounting surface is clean and there is no debris on the bottom of the minibar or on the roof of the vehicle, which could reduce the holding power of the suction cup and magnet. Place and remove the minibar without sliding to avoid scratching the paint on the vehicle. After placement, the minibar should adhere firmly to the surface. If the unit slides or moves easily, a proper installation has not been obtained. To release the vacuum, lift the tab to release the airlock (see Figure 1). To protect the Vacuum-Magnet Mount assembly, return minibar to the box when not in use. **Do not attempt to attach the minibar to an ice-covered surface.**



### WARNING!

**Maximum recommended vehicle speed for safe operation using the Vacuum Mount model is 65 mph (104 km/h), when fitted to the centre of a vehicle roof of steel construction. Higher speeds could cause the mount to fail, resulting in the minibar flying off of the vehicle, which could cause damage to other vehicles, and injury or death to the passengers.**

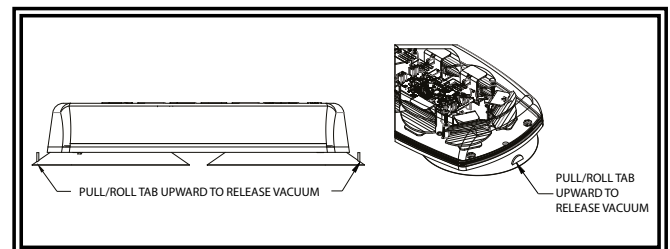


Figure 1



### WARNING!

**Failure to follow these instructions can result in fire or injury from excessive heat build up.**

Operator is responsible for ensuring auxiliary plug fits correctly into auxiliary power plug outlet used.

For proper operation, verify auxiliary power outlet circuit is rated to supply a minimum of 10 amps. (See specifications section for rated current in amperes).

Do not exceed the current rating for the auxiliary power outlet recommended by vehicle manufacturer.

Keep auxiliary plug and outlet clean and free of debris.

Do not use the auxiliary plug when wet.

Insert auxiliary plug fully into the outlet for proper connection.

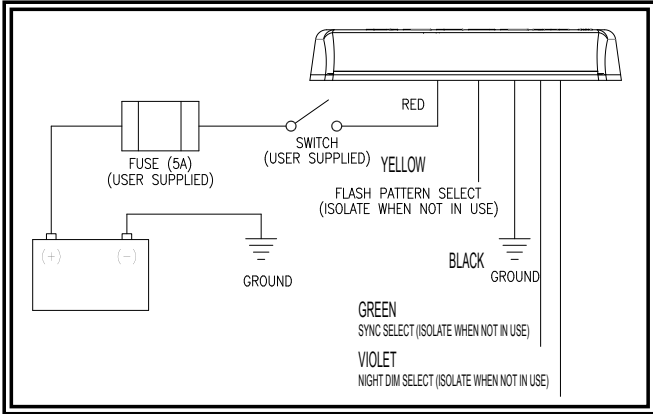
Grasp auxiliary plug, NOT cord, to remove from outlet.

Remove auxiliary plug completely from outlet when light is not in use.

**Note:** Operating the Minibar without the lens installed on this product will result in damage that will not be covered under warranty.

**Important!** Disable power before wiring up the Minibar.

The wiring for the permanent mount minibar is as shown in Figure 2. All wiring should be a minimum of 18AWG. The positive line must have a 5 amp fuse, as shown. A switch may be used to control the on/off function.



**Figure 2**

**Wiring Connections:**

For SYNC flash operation between two permanent mount minibars, connect the green wire from each lightbar together (Isolate the wire when not in use).  
 For NIGHT DIM operation, connect the violet wire to positive supply. (Isolate the wire when not in use).

**Flash Mode Selection:**

**Permanent mount minibars**  
 Flash patterns can be selected on permanent mount minibars by touching the yellow wire to the red power wire for less than a second. Contacting the yellow and red wires for longer than a second toggles to the preceding flash pattern.

**Magnetic mount minibars**  
 Flash patterns can be selected on magnetic mount minibars by pressing cigarette plug toggle switch for less than a second. Holding the cigarette plug toggle switch for longer than a second toggles to the preceding flash pattern.

Flash Pattern Chart	
Sequence	Description
1	R65 Quad (Default setting)
2	R65 Double
3	R65 Burst
4	Double A
5	Double B
6	Quad A
7	Quad B
8	Quad SS (side to side)
9	Quad X (cross pattern)
10	Double SS
11	Double X
12	Quint A
13	Quint B
14	Quint SS
15	Quint X
16	Burst A
17	Burst B
18	Fast Rotate
19	Rotate Quad
20	Wave Rotate
21	Steady On

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## **Electronics Controls Company “ECCO” (Manufacturer)**

ECCO warrants that on the date of purchase, this product will conform to ECCO’s specifications for this product (which are available from ECCO upon request). This Limited Warranty extends for twenty four (24) months from the date of purchase.

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