English

RadioRA 2

Visor Control Receiver: RR-VCRX
9 V⎓ 300 mA
DC Adapter: T120-9DC-3
Input: 120 V~ 60 Hz 6.5 W
Output: 9 V⎓ 300 mA
Typical Power Consumption*: 1.6 W
Visor Control Transmitter: LR-3B-H
3 V⎓ 10 mA

Installation Instructions
Please Read Before Installing

Use these instructions to install the model numbers listed above. For system setup instructions and tools visit: www.lutron.com/radiora2

Features

- 2 Contact Closure Inputs (CCI) for integration with other systems and 1 CCI for security systems.
- 4 Contact Closure Outputs (CCO) to control up to 4 momentary garage doors or motorized gates.
- Up to 10 Transmitters can be used with a Receiver.
- Each output can be controlled locally at the Receiver or remotely by a Transmitter
- Includes pre-printed and blank labels for naming scenes/buttons.

Important Notes

Environment

Visor Control Receiver:
Ambient operating temperature: 32 °F to 140 °F (0 °C to 60 °C), 0% to 90% humidity, non-condensing. Indoor use only.

Visor Control Transmitter:
Ambient operating temperature: -40 °F to 235 °F (-40 °C to 113 °C), 0% to 90% humidity, non-condensing. Meets the Society of Automotive Engineers (SAE) temperature standards.

Codes
Install in accordance with all local and national electrical codes.

Cleaning
To clean, wipe with a clean damp cloth. DO NOT use any chemical cleaning solutions.

Visor Control Receiver DC Adapter Power
NOTICE - Using a DC adapter not rated at the proper specifications could damage the Receiver and possibly overheat the DC adapter. Use only the Lutron® DC adapter listed above.

Visor Control Transmitter Battery Power
A Transmitter uses two (2) CR 2032 batteries (included). ***Keep batteries out of reach of children.*** Using improper batteries could damage the Transmitter. DO NOT dispose of the batteries in normal household waste. Please recycle batteries, take to a battery disposal facility, or contact your local waste disposal provider regarding local restrictions on the disposal or recycling of batteries**.**

RF Device Placement
The Receiver must be within 30 ft (9 m) of an RF signal repeater. The typical operating distance between a Receiver and a Transmitter is 150 ft (46 m).

Programming
For programming instructions, see the system Setup Guide provided with the system or visit the website listed above.

Installation of a Visor Control Receiver

1. Find a suitable location for the Receiver either near a security sytem panel or above a garage door opener and within 30 ft (9 m) of a repeater. For more information regarding the proper placement of a Receiver in a system see the system Setup Guide located at the website listed above.
2. Mount vertically or horizontally, as shown in the **Mounting Diagram**, using two #6 (M3) screws (included). When mounting, allow 7 in (177.8 mm) clearance for the antenna and ensure convenient access to the contact closures and front buttons. In order to achieve proper RF performance, do not mount unit in a metal enclosure.
3. Attach the DC adapter cord to the power jack on the Receiver and insert the DC adapter plug into a 120 V~ 60 Hz receptacle.

Installation of a Visor Control Transmitter

1. Attach the visor clip to the Transmitter as shown in the **Mounting Diagram**.
2. Mount the Transmitter onto a vehicle's visor.

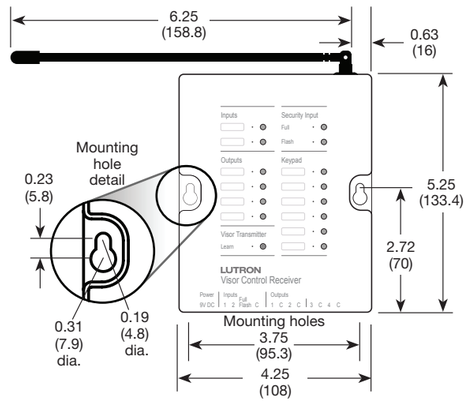
*Typical Power Consumption test conditions: two LEDs on (two presets active), Receiver powered by the 9 V⎓ adapter supplied, no Contact Closure Outputs or Contact Closure Inputs active.

Technical Assistance:
U.S.A./Canada: 1.800.523.9466
Mexico: +1.888.235.2910
Other Countries: +1.610.282.3800
24 hours a day, 7 days a week.

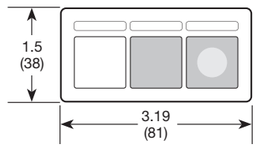
Dimensions

Measurements are in inches (mm).

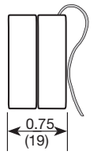
Receiver (front view)



Transmitter (front view)

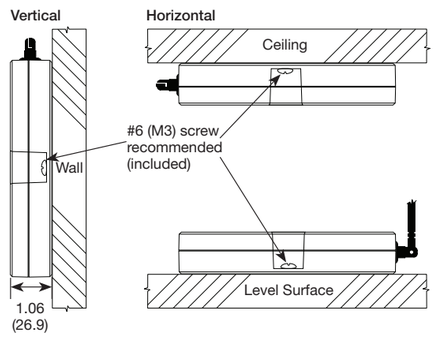


Transmitter (side view)

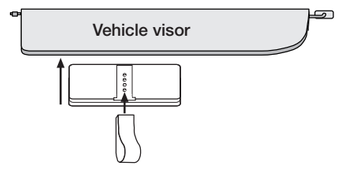


Mounting Diagram

Receiver (side view)



Transmitter (back view)

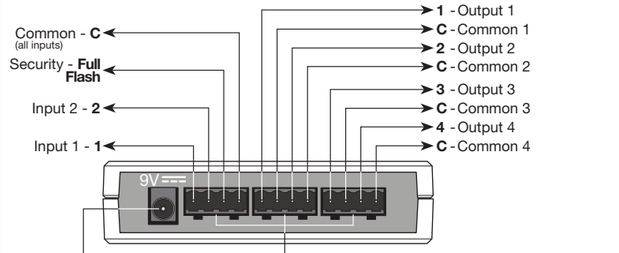


Connection Diagram

Receiver (bottom view)

Contact Closure Inputs (CCI)
ON saturation: <1 V⎓ at 2 mA
OFF leakage: <1 µA at 9 V⎓
Minimum Pulse Time: 40 ms

Contact Closure Outputs (CCO)
Max Voltage / Current: See **Relay Contact Ratings** below.
Listed Class 2 / Certified PELV
Minimum Pulse Time: 500 ms



Power Jack (to DC adapter)
Model: T120-9DC-3
(NEC® Class 2 / IEC PELV)

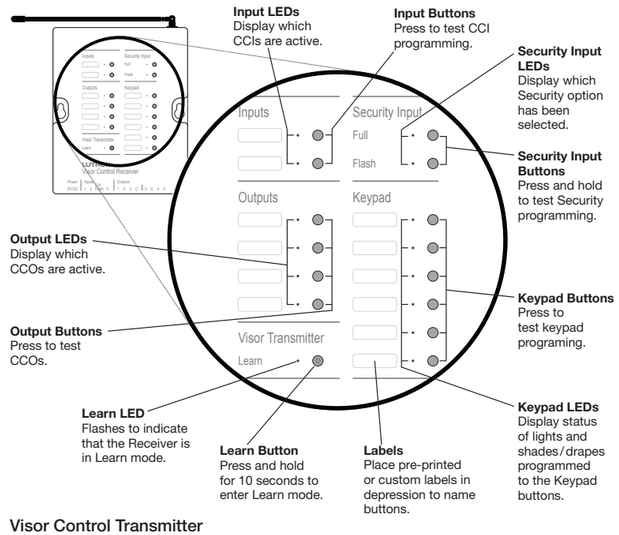
Contact Closure Terminal Blocks
Use Class 2 cable
Maximum 1,000 ft (305 m)
Each terminal holds up to one 16 AWG (1.0 mm²) or two 18 AWG (0.75 mm²) or smaller wire.

Relay Contact Ratings

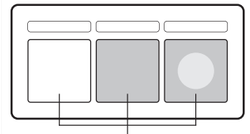
Voltage	Resistive Load	Inductive Load
Up to 30 V⎓	1 A	0.2 A
Up to 30 V~	1 A	0.1 A
Up to 60 V⎓	0.5 A	Do not use.

Normal Operation

Visor Control Receiver



Visor Control Transmitter



Visor Control Transmitter Buttons
Press to activate functions remotely.

Troubleshooting Guide

Symptom	Probable Cause and Action
Dimmers, keypads, shades/drapes, security system, garage doors or motorized gates do not respond to the Visor Control Receiver or Transmitter.	Power Not Present • Ensure that the power supply cord is plugged into a wall outlet and the power jack on the Receiver. • Circuit Breaker is OFF or tripped. Reset or turn on circuit breaker.
	System devices are not programmed correctly. • Program all devices according to the system Setup Guide.
	System devices are not within specified RF range. • Ensure that dimmers, keypads and shades/drapes are within 30 ft (9 m) of a repeater. • Verify that all repeaters are within 60 ft (18 m) of another repeater. • Make sure that the Receiver is within 30 ft (9 m) of a repeater. • Wait until the Transmitter is within 150 ft (46 m) of the Receiver before pressing a button on the Transmitter.
	Receiver is not programmed correctly. • See the system Setup Guide to program the Receiver.
	Contact Closure Inputs not wired correctly. • Refer to the **Connection Diagram** for proper wiring.
	The Transmitter is not programmed correctly. • See the system Setup Guide to program the Transmitter.
	Contact Closure Outputs not wired correctly. • Refer to the **Connection Diagram** for proper wiring.
	Dead, low, or no batteries in the Transmitter. • Install new batteries in the Transmitter (CR2032)
The Transmitter is not communicating with the Receiver.	The Transmitter is not programmed correctly. • See the system Setup Guide to program the Transmitter.
	Transmitter is not within specified RF range. • Wait until the Transmitter is within 150 ft (46 m) of the Receiver before pressing a button on the Transmitter.
	Dead, low, or no batteries in the Transmitter. • Install new batteries in the Transmitter (CR2032).
LEDs on the Receiver do not turn on when it is powered up.	Improper AC adapter used. • Use the DC adapter provided with the Receiver.
Top Keypad LED on the Receiver flashing rapidly.	Improper adapter used. • Use the DC adapter provided with the Receiver.

Note: Refer to the system Setup Guide for additional troubleshooting suggestions.

Remove all Visor Control Transmitters from the Visor Control Receiver

Note: Removing the Transmitters from the Receiver will remove the capability to activate functions on the Receiver remotely but will not remove programming from the Receiver. The Transmitters will need to be reprogrammed to a Receiver according to the system Setup Guide.

1. Triple tap and hold the Learn button on the Receiver. DO NOT release the button after the third tap.
2. Keep the button pressed on the third tap until the Learn LED starts to flash slowly (approximately 3 seconds).
3. Release the button and immediately triple tap it again. The Learn LED will flash quickly. When the LED stops flashing, all of the Transmitters have been removed from the Receiver.

Returning a Visor Control Receiver to Factory Settings

Note: Returning the Receiver to factory settings will erase all system programming from the Receiver and will require the Receiver and all Transmitters to be reprogrammed into a system according to the system Setup Guide.

1. Triple tap and hold any button (except the Learn button) on a Receiver. DO NOT release the button after the third tap.
2. Keep the button pressed on the third tap until the LED(s) start to flash slowly (approximately 3 seconds).
3. Release the button and immediately triple tap it again. The LEDs will flash quickly. When the LEDs stop flashing, the Receiver has been returned to factory settings.

Warranty: For warranty information, please see the Warranty enclosed with the product, or visit www.lutron.com/resiinfo.

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