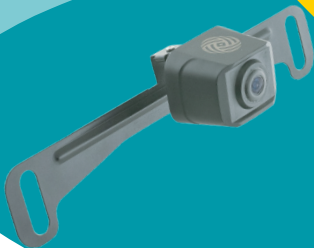


CAM-WLP



Wireless Back-up Camera

RVS-TR3B

User Manual



ECHOMASTER

Thank you for purchasing the EchoMaster Wireless Back-up Camera

EchoMaster Cameras are designed to improve safety by providing high quality images of surrounding areas and obstacles in the vicinity of the vehicle. This may help improve vehicle maneuvering capabilities by displaying blind spots or areas not normally visible to the driver.

Please ensure you read and understand all aspects of this manual before installing or using your EchoMaster products.

What's Included:

- ▶ Camera
- ▶ Wireless Receiver
- ▶ Power Harness
- ▶ Mounting Brackets
- ▶ Installation Hardware
- ▶ User Manual

Features:

- ▶ 1/3" CMOS sensor
- ▶ Operates at 0.1 LUX
- ▶ 140° viewing angle
- ▶ Operation frequency: 2.4GHz
- ▶ Water/Debris-proof rating: IP67

Installing the Camera:

- License Plate Mount

Step 1

Remove the screws that hold the license plate to the vehicle and remove the license plate. *(Fig 1)*

Step 2

Find an opening (or drill a small hole) to feed the camera cable into the vehicle. *(Fig 2)*

Fig 1



Fig 2



Step 3

Position the camera mounting bracket behind the license plate.

Insert the screws to hold the camera and license plate in place. *(Fig 3)*

Step 4

Secure the license plate to the vehicle using the screws removed in Step 1.

Step 5

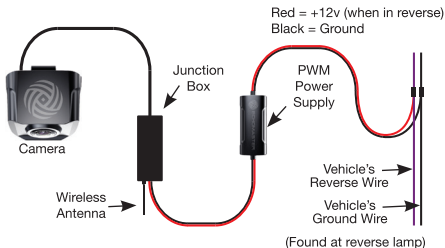
Route the camera's power wires to the vehicle's reverse lamp wires and connect using supplied T-Tap connectors.

*See Camera Wiring Diagram

Fig 3



Camera Wiring Diagram:



Installing the Camera:

- Lip Mount

Step 1

Find an opening (or drill a small hole) to feed the camera cable into the vehicle. *(Fig 4)*

Step 2

Position the camera mounting bracket on vehicle lip and screw into place.
(Fig 5)

Step 3

Connect to the monitor.
(see instructions on page 10)

Fig 4



Fig 5



Installing the Wireless Receiver:

Step 1

Locate a suitable location to mount the wireless receiver - make sure it is mounted away from any moving parts. Secure using double-sided tape or wire ties.

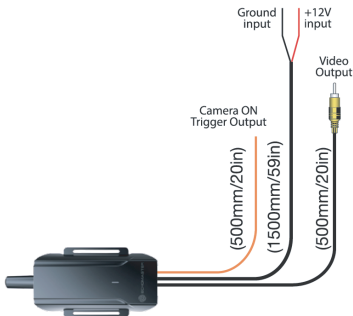
Step 2

Connect the Yellow RCA from the wireless receiver to the camera input of the radio or monitor.

Step 3

Connect the receiver's power wires to an accessory 12V source. The Red wire coming from the receiver's Yellow RCA should only be used to trigger the radio or monitor to show the camera image.

Compatible with aftermarket radios, factory radios, and rearview mirror monitors.



Operation:

Step 1

Connect the camera and receiver as explained earlier in the manual.

Step 2

Once powered the receiver will show the startup logo for one second and then enter into waiting mode (red LED flashes slow) for one minute. If the camera image is not detected in that time the receiver will enter into standby mode (LED will turn off).

Step 3

Once the vehicle is shifted into reverse and a video signal is detected (red LED will flash fast), the receiver will automatically turn on (LED will be solid red) and display the image. At this time the 12V trigger output wire will energize to activate the monitor.

Pairing the camera to the receiver:

Note: The camera and receiver have been paired together from the factory. There should be no need to pair the two upon initial installation. Should you need to pair the two please use the following steps to do so.

Step 1

Power on the receiver.

Step 2

Press and hold the button located on the receiver for 3 seconds. The indicator light on the receiver will start flashing red fast, indicating that the receiver is in pairing mode. This indicator will continue to flash for 30 seconds or until it pairs with the camera.

Step 3

Power the camera on by shifting the vehicle into reverse - it will begin the pairing process. When the camera and receiver successfully pair, the LED on the receiver will illuminate solid red and the camera image will be shown on the screen. If the receiver does not detect the camera signal within 30 seconds, the pairing process will end.

Firmware Version:

With the vehicle in reverse and the camera image on the screen press the button on the receiver three times. The firmware version for the camera (TX) and receiver (RX) will be displayed on the screen for 5 seconds.

Installation Guide

Camera (TX)

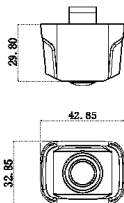
Sensor Type	1.3" CMOS PC1058
Illumination	0.1 LUX
Viewing Angle	140°
Water/Debris-Proof	IP67
Power Supply	12V DC <130 mA
Operating Temp	-4°F~149°F / -20°C~65°C
Operation Frequency	2.4GHz ISM

Receiver (RX)

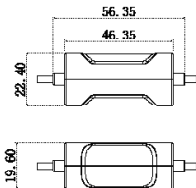
Output Signal	CVBS (480p x 272p)
Trigger Output Voltage	12V (200mA)
Communication Distance	150ft (Outdoor, no obstructions)
Power Supply	12V DC <100 mA
Operating Temp	-4°F~149°F / -20°C~65°C

Dimensions (mm)

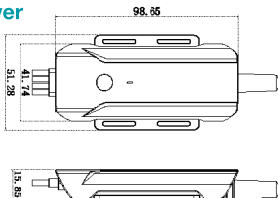
Camera



Power Supply



Receiver



Notes:

FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be

determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body



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