

CAM-TGL



**Back-up Camera
with Moving Guidelines**
User Manual



ECHOMASTER

Installation Guide

Thank you for purchasing the EchoMaster Back-up Camera with Moving Guidelines

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.



PLEASE NOTE

Before use, remove plastic cover on the camera lens

Installation Guide

What's Included:

- ▶ Camera
- ▶ License Plate Bracket
- ▶ Installation Hardware
- ▶ Wiring Harness (39")
- ▶ RCA Cable (20')
- ▶ User Manual

Features:

- ▶ 1/3" CMOS sensor
- ▶ Operates at 0.5 LUX
- ▶ 170° viewing angle
- ▶ Dynamic parking guidelines
- ▶ Water/Debris-proof rating: IP67

Installation Guide

Out of the Box: License Plate Bracket

The license plate bracket is mounted to the camera when you take it out of the box.



To Use Lip Mount Bracket:

Follow these steps to replace the License Plate Bracket with the Lip Mount Bracket.

Step 1

Remove the screws on each side of the camera to remove the license plate bracket.

-Screwdriver not included



Installation Guide

Step 2

Out of the Box: Lip Mount Bracket

Unscrew the screws on each side of the lip mount bracket.

-Be careful to not lose the lock washers!



Step 3

Align the brackets and replace the screws and lock washers.



Lip Mount Bracket is Now Ready for Install

The camera is now ready to mount to the vehicle's lip.

-Screws and adhesive provided



Installation Guide

Installing the Camera

- License Plate Mount

Step 1

Remove the screws that hold the license plate to the vehicle and remove the license plate.

Step 2

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

Installation Guide



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Installation Guide

Step 3

Position the camera mounting bracket behind the license plate. Insert the screws to hold the camera and license plate in place.

Step 4

The camera angle should be mounted at 30 - 40 degrees downward for dynamic guidelines to perform correctly.

Step 5

Connect to the monitor.
(see instructions on page 12)

Installation Guide



SAFETY



Incorrect

30-40°



Correct

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Installation Guide

Installing the Camera

- Lip Mount

Step 1

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

Step 2

Position the camera mounting bracket on vehicle lip and screw into place.

Step 3

The camera angle should be mounted at 30 - 40 degrees downward for dynamic guidelines to perform correctly.

Step 4

Connect to the monitor.
(see instructions on page 12)

Installation Guide



Mounts to vehicle lip



Incorrect

30-40°



Correct

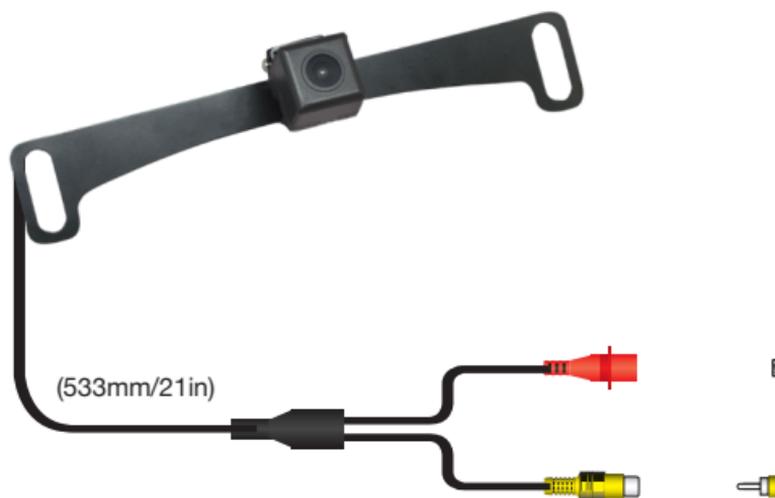
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Installation Guide

For both License Plate and Lip Mount

Connect to Monitor

Use harness and RCA cable to connect the camera to your monitor with a standard video input.



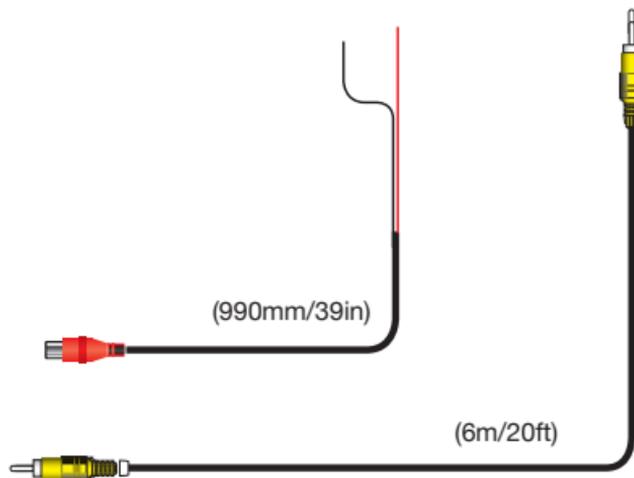
Installation Guide

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



GND (Black) +12V (Red)

VIDEO



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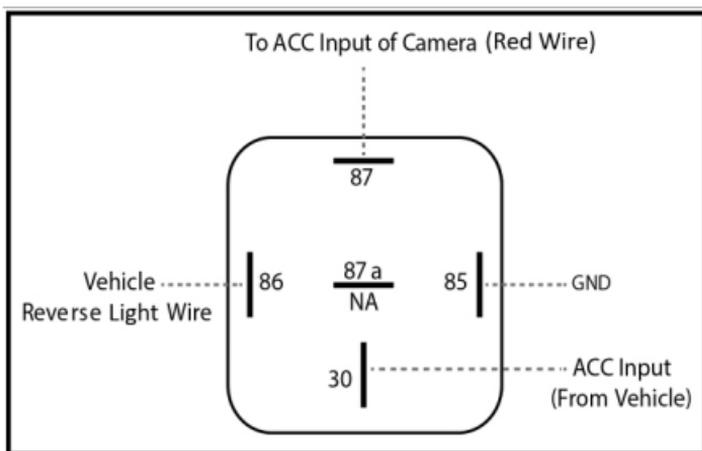
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Installation Guide

Installer Notes

Some vehicles' reverse lamp wires are now variable voltage wires, and may cause a fuzzy or distorted image. If you experience this, please use a relay to power your camera, as shown in the diagram.

Installation Guide



PLEASE NOTE

These instructions are only a general guide. If more assistance is needed, please consult with a professional installer.

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Installation Guide

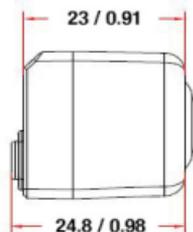
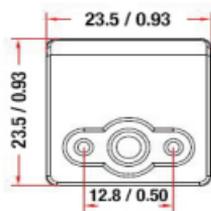
Camera	
Sensor Type	1.3" CMOS PC3089
LEDs	N/A
Illumination	0.5 LUX
Viewing Angle	170°
Mirror Image	Yes
Normal View	No
Water/Debris-Proof	IP67
Audio	No
Power Supply	12V DC
Current	<180 mA
Operating Temp	-4°F -+158°F/-20°C -+70°C
Dimensions - (mm/in)	D (24.8/0.93) x W (23.5/0.93)x H (23.5/0.93)

Installation Guide

Camera

Dynamic Guidance Trajectory	Embedded
AGC	Auto
BLC	Auto
System	NTSC
TV Lines	600
Resolution	762x504

Camera Dimensions (mm/in)



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NOTES:

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