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## EchoMaster CAM-TGL

# EchoMaster CAM-TGL License Plate Back-Up Camera User Manual

Model: CAM-TGL

## INTRODUCTION

Thank you for choosing the EchoMaster CAM-TGL License Plate Back-Up Camera. This camera is designed to enhance your vehicle's safety by providing a clear view of the area behind your vehicle, making reversing and parking easier and safer. This manual provides detailed instructions for the proper installation, operation, and maintenance of your CAM-TGL camera to ensure optimal performance and longevity.

## WHAT'S INCLUDED

Please verify that all components are present before beginning installation:

- EchoMaster License Plate Back-Up Camera
- License plate mounting bracket
- Installation hardware
- 39-inch wiring harness
- 20-foot RCA cable
- Owner's manual (this document)

## KEY FEATURES

- **Universal Compatibility:** Allows installation in most vehicles.
- **High-Quality Imaging:** Equipped with a 1/3" CMOS image sensor for clear video output.
- **Weather-Resistant Design:** Durable and water-resistant construction for reliable performance in various weather conditions.
- **Wide Viewing Angle:** Features a 170° viewing angle lens to capture a broad perspective behind your vehicle.
- **Dynamic Parking Guidelines:** Provides on-screen guidelines that assist with precise parking maneuvers.

## SETUP AND INSTALLATION

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Proper installation is crucial for the optimal performance of your EchoMaster back-up camera. It is recommended that installation be performed by a qualified professional.

### 1. Mounting the Camera:

Attach the camera to the included license plate mounting bracket using the provided installation hardware. Ensure the camera is securely fastened and positioned to provide an unobstructed view.



Image: Angled view of the EchoMaster CAM-TGL camera mounted on its license plate bracket, showing the camera housing and the metal bracket.



Image: Front view of the EchoMaster CAM-TGL camera mounted on its license plate bracket, showing the camera lens centered on the bracket.



Image: Side view of the EchoMaster CAM-TGL camera mounted on its license plate bracket, illustrating the slim profile of the camera and bracket assembly.



Image: The EchoMaster license plate mounting bracket shown without the camera, highlighting its design for vehicle integration.

## **2. Wiring Connections:**

Connect the 39-inch wiring harness to the camera. Route the 20-foot RCA cable from the camera to your vehicle's monitor or head unit. Ensure all connections are secure and properly insulated to prevent shorts or interference.

## **3. Power Connection:**

Connect the camera's power wire to the vehicle's reverse light circuit. This ensures the camera activates automatically when the vehicle is shifted into reverse. The ground wire should be securely connected to a chassis ground point.

## **4. Testing:**

After installation, test the camera by shifting your vehicle into reverse. The image should appear on your connected monitor. Verify the clarity of the image and the functionality of the dynamic parking guidelines.

## **OPERATING INSTRUCTIONS**

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The EchoMaster CAM-TGL back-up camera is designed for simple, automatic operation:

### **1. Automatic Activation:**

When your vehicle is shifted into reverse, the camera will automatically power on and transmit video to your connected monitor.

### **2. Viewing the Feed:**

The live video feed from the camera will be displayed on your vehicle's monitor. This view provides a wide-angle perspective of the area directly behind your vehicle.



Image: An in-car display showing the backup camera's view. The screen displays a wide-angle image of the rear environment, complete with dynamic parking guidelines overlaid on the video feed.

### 3. Dynamic Parking Guidelines:

The camera features dynamic parking guidelines that move with your steering wheel, indicating the projected path of your vehicle. Use these lines to assist with parking and maneuvering in tight spaces.

### 4. Obstacle Detection:

Always use the camera feed in conjunction with your mirrors and direct observation. The camera provides an aid for detecting obstacles, but it does not replace safe driving practices.

## MAINTENANCE

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To ensure the longevity and clear performance of your EchoMaster CAM-TGL camera, follow these simple maintenance guidelines:

- **Cleaning the Lens:** Regularly clean the camera lens with a soft, damp cloth to remove dirt, dust, or water spots that may obstruct the view. Avoid abrasive cleaners.
- **Checking Connections:** Periodically inspect all wiring connections (power, ground, RCA) to ensure they remain secure and free from corrosion.
- **Physical Inspection:** Check the camera housing and mounting bracket for any signs of damage or loosening. Address any issues promptly to prevent further damage.

- **Weather Resistance:** While the camera is water-resistant, avoid directing high-pressure water sprays directly at the camera during car washes.

## TROUBLESHOOTING

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If you encounter issues with your EchoMaster CAM-TGL camera, refer to the following common problems and solutions:

- **No Image on Monitor:**

- Ensure the vehicle is in reverse.
- Check all power and ground connections to the camera and monitor.
- Verify the RCA video cable is securely connected at both ends.
- Confirm the monitor is set to the correct video input.

- **Distorted or Flickering Image:**

- Check for loose or damaged RCA cable connections.
- Ensure power connections are stable and free from interference.
- Inspect the camera lens for dirt or condensation.

- **Parking Guidelines Not Appearing or Incorrect:**

- Verify the camera is correctly installed and aligned.
- Some monitors or head units may have settings to enable/disable or adjust parking lines. Consult your monitor's manual.

- **Camera Not Activating in Reverse:**

- Confirm the camera's power wire is correctly connected to the reverse light circuit.
- Check the fuse for the reverse lights.

If these steps do not resolve the issue, please contact EchoMaster customer support or your authorized dealer.

## SPECIFICATIONS

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| Feature                   | Specification                 |
|---------------------------|-------------------------------|
| Manufacturer              | EchoMaster                    |
| Model Number              | CAM-TGL                       |
| Item Weight               | 9.1 ounces                    |
| Package Dimensions        | 8.66 x 3.31 x 2.09 inches     |
| Voltage                   | 12 Volts                      |
| Compatible Devices        | Monitor                       |
| Installation Type         | Surface Mount (License Plate) |
| Optical Sensor Technology | CMOS                          |

| Feature             | Specification |
|---------------------|---------------|
| Optical Sensor Size | 1/3 inch      |
| Lens Type           | Wide Angle    |
| Real Angle of View  | 170 Degrees   |
| Connector Type      | RCA           |

## WARRANTY INFORMATION

EchoMaster products are designed for reliability and performance. Specific warranty terms and conditions for the CAM-TGL camera are typically provided with the product packaging or can be found on the official EchoMaster website. Please retain your proof of purchase for warranty claims.

## SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact EchoMaster customer support or visit their official website. You may also reach out to the retailer where you purchased the product.

**EchoMaster Official Store:** [Visit the EchoMaster Store on Amazon](#)

## Related Documents - CAM-TGL

|   |   |
|---|---|
|    | <p><a href="#">EchoMaster CAM-DPL Universal Reverse Camera User Manual</a></p> <p>User manual for the EchoMaster CAM-DPL universal reverse camera, detailing specifications, features, box contents, dimensions, and wiring diagrams for installation and use.</p>  |
| <p>EchoMaster backup alarms are designed to improve safety during backing up by providing loud, clear audio and visual alerts.</p> <p>Please ensure you read and understand all aspects of this manual before fitting or using your EchoMaster backup alarm. Choose a suitable mounting location and route the wiring correctly. Ensure that there are no wiring harnesses or hoses/pipes located behind the panel before drilling.</p> <p>email: <a href="mailto:support@amglobal.com">support@amglobal.com</a><br/>phone: 1-800-222-1111<br/>15500 Lighthouse Drive, Suite 202<br/>Clearwater, Florida 33760<br/>EchoMaster is a Power Brand of AMGlobal<br/><a href="http://EchoMaster.com">EchoMaster.com</a></p> | <p><a href="#">EchoMaster BUA-97C Backup Alarm: Specifications and Installation Guide</a></p> <p>Comprehensive guide for the EchoMaster BUA-97C backup alarm, detailing its purpose, installation instructions, box contents, wiring diagram, dimensions, and technical specifications for enhanced vehicle safety.</p> |
|    | <p><a href="#">EchoMaster MRCHDDVR2 User Manual: Installation and Operation Guide</a></p> <p>User manual for the EchoMaster MRCHDDVR2 Rear View Mirror Monitor with DVR and Backup Camera. Covers installation, features, settings, and troubleshooting for enhanced vehicle safety.</p>                                |



#### [EchoMaster EFS-AVL68 Installation Guide: GPS Asset Tracker Setup](#)

Comprehensive installation manual for the EchoMaster EFS-AVL68 GPS asset tracker. Learn how to install, configure, and activate your device for fleet and asset management.



#### [EchoMaster PHDCAM10U Universal CVBS/AHD Camera User Manual](#)

User manual for the EchoMaster PHDCAM10U Universal CVBS/AHD Camera, detailing its features, specifications, box contents, and wiring diagram for improved vehicle safety and maneuvering.



#### [Installation Manual: EchoMaster P-BUA-SILVERADO Wiring Harness for 2016-2021 Chevrolet Silverado](#)

Step-by-step installation guide for the EchoMaster P-BUA-SILVERADO wiring harness, designed for 2016-2021 Chevrolet Silverado trucks. Includes required tools, parts list, compatible accessories, and detailed instructions for integrating a backup alarm.