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RAAYOO RYL001

RAAYOO L001 Universal Car Camera User Manual

Model: RYL001

Brand: RAAYOO

1. INTRODUCTION

The RAAYOO L001 is a versatile 12V car camera designed for use as a reverse, front, or side view camera. It features a high-definition color CMOS sensor, starlight level night vision, and an IP68 waterproof rating, ensuring clear and reliable imaging in various conditions. The camera lens can be manually rotated 360 degrees for optimal angle adjustment. This manual provides detailed instructions for installation, operation, and maintenance of your RAAYOO L001 camera.

Key features include:

- Clear, wide viewing field to eliminate blind spots.
- 360-degree rotatable lens for convenient angle adjustment.
- Multi-functionality: can be used as a reverse, side, or front view camera.
- Easy installation with strong double-sided adhesive, no drilling required.
- IP68 waterproof level for reliable performance.
- HD high clear image with no distortion.
- Starlight level night vision.

2. SETUP AND INSTALLATION

The RAAYOO L001 camera is designed for easy installation. It connects via an RCA video input connector and requires a 12V power supply. The camera comes with a 26-foot extension cable for video signal transmission and a 4.5-foot power cord.

2.1 Package Contents

- RAAYOO L001 Camera Unit
- 6m/18ft Video Cord (RCA)
- 1.5m/4.5ft Power Cord

- 2 Mounting Screws

2.2 Mounting the Camera

The camera can be mounted using the strong double-sided adhesive tape on any desired flat surface. No drilling is required for mounting the camera unit itself, though routing cables may require some vehicle modification.



Figure 2.1: RAAYOO L001 Camera Unit. This image shows the compact design of the camera with its integrated adhesive base and cable.



Figure 2.2: Camera Dimensions. This image provides the physical dimensions of the camera unit, including its length, width, and height, along with the adhesive pad size.

2.3 Wiring Diagram

Follow the diagram below for proper wiring. Ensure all connections are secure to prevent signal loss or power issues.



Figure 2.3: Wiring Diagram. This diagram illustrates how to connect the camera's power cord to the vehicle's 12V power source (e.g., backup light) and the video cord to the monitor's RCA input. It also shows the included screws.

- Connect the red wire of the camera's power cord to a 12V power source (e.g., vehicle's backup light positive for reverse camera functionality).
- Connect the black wire of the camera's power cord to a ground point (e.g., vehicle chassis).
- Connect the yellow RCA video connector from the camera's video cord to the video input of your monitor.
- Ensure the monitor is also powered correctly.

3. OPERATING INSTRUCTIONS

3.1 Adjusting the Camera Lens

The RAYOO L001 features a lens that can be manually rotated 360 degrees. This allows you to fine-tune the viewing angle to best suit your vehicle and desired perspective (e.g., higher for a wider view, lower for bumper visibility).

Rotatable 360° Camera Lens



Important:

The camera lens can only be adjusted by your hand, it is not automatic.

Figure 3.1: Rotatable Lens. This image highlights the 360-degree rotation capability of the camera lens, allowing for manual adjustment of the viewing angle.

3.2 Image Mode and Guideline Control

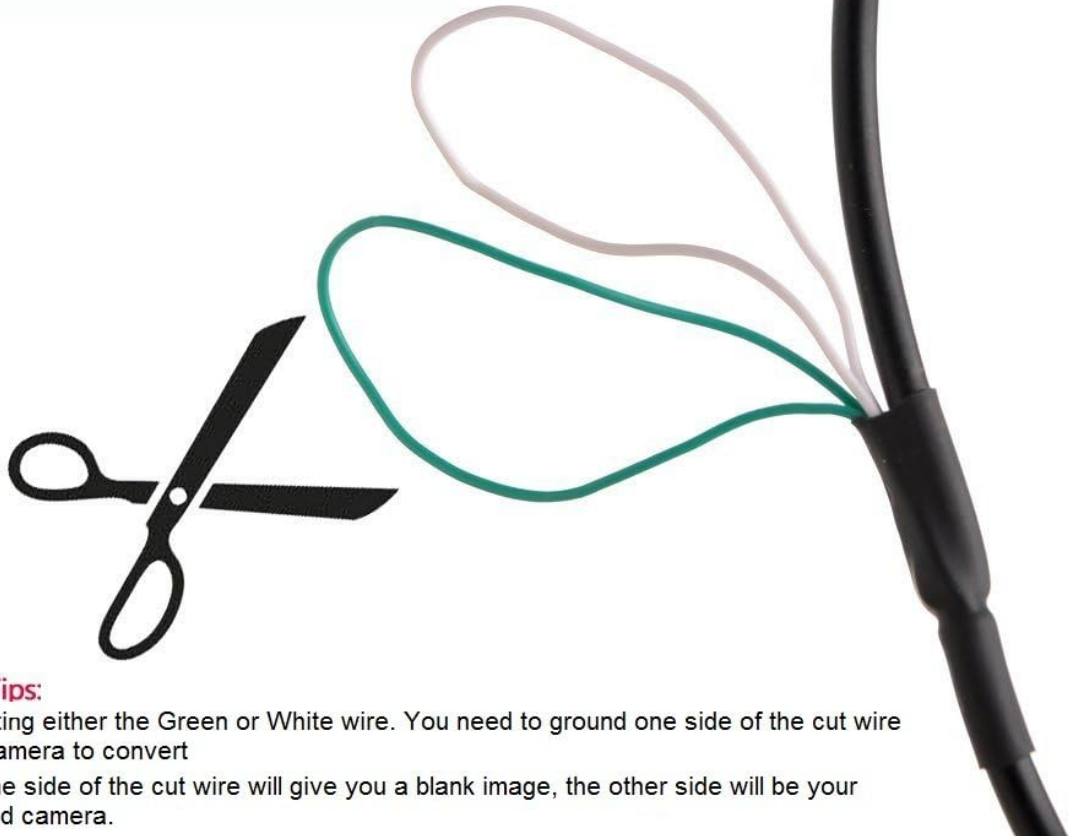
The camera includes two small wires (white and green) near the camera unit that control the parking guidelines and image mirroring. These wires allow you to customize the camera's behavior for different applications (rear, front, or side view).

Guideline Adjustable

Note: This camera is rear view camera with distance scale line as default

Cut White Cable: Cancel Parking Line

Cut green cable: Switch mirror(rear view) to non-mirror image(front view)



Warm Tips:

After cutting either the Green or White wire. You need to ground one side of the cut wire for the camera to convert

Note: One side of the cut wire will give you a blank image, the other side will be your converted camera.

Figure 3.2: Guideline and Mirror Image Adjustment Wires. This image shows the white and green wires that can be cut to modify the camera's output, along with a pair of scissors indicating the action.

- **White Loop:** Controls the parking guidelines.
 - To **cancel** the guidelines: Cut the white loop.
 - To **keep** the guidelines (default for rear view): Leave the white loop intact.
- **Green Loop:** Controls image mirroring.
 - To change from mirror image (default for rear view) to **non-mirror image** (for front/side view): Cut the green loop.
 - To **keep** the mirror image (default for rear view): Leave the green loop intact.

Important Notes:

- After cutting either the green or white wire, you need to ground one side of the cut wire for the camera to convert the setting.
- If a wire is cut, it cannot be reconnected to restore the original function. Make sure of your desired configuration before cutting.
- Always power off the vehicle and then power it on again after cutting the loops for the changes to take effect.

4. MAINTENANCE

The RAAYOO L001 camera is designed for durability and requires minimal maintenance. However, regular checks can ensure optimal performance:

- **Cleaning:** Periodically clean the camera lens with a soft, damp cloth to remove dirt, dust, or water spots that may obstruct the view. Avoid abrasive cleaners.
- **Cable Inspection:** Occasionally inspect the power and video cables for any signs of wear, fraying, or damage. Ensure connections remain secure.
- **Mounting Security:** Verify that the camera remains securely attached to its mounting surface. Re-apply adhesive if necessary.
- **Waterproofing:** While the camera is IP68 rated, avoid directing high-pressure water jets directly at the camera for extended periods.

5. TROUBLESHOOTING

If you encounter issues with your RAAYOO L001 camera, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image on monitor	No power to camera or monitor; Loose video connection; Incorrect video input selected on monitor.	Check all power connections (12V and ground). Ensure the monitor is powered on and set to the correct video input. Verify RCA cable is securely connected.
Image is blurry or distorted	Dirty lens; Damaged video cable; Incorrect lens focus (unlikely for fixed focus).	Clean the camera lens. Inspect the video cable for damage. Ensure the lens is rotated to a clear view.
Image is mirrored when it shouldn't be (or vice-versa)	Green loop not cut/cut incorrectly.	Refer to Section 3.2 for instructions on cutting the green loop. Remember to power cycle the vehicle after making changes.
Parking guidelines are present/absent unexpectedly	White loop not cut/cut incorrectly.	Refer to Section 3.2 for instructions on cutting the white loop. Remember to power cycle the vehicle after making changes.
Poor night vision	Insufficient ambient light; Dirty lens.	Ensure the lens is clean. The camera has starlight level night vision but still benefits from some ambient light.

If the problem persists after attempting these solutions, please contact RAAYOO customer service for further assistance.

6. SPECIFICATIONS

Model Number	RYL001
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Brand	RAAYOO
Optical Sensor Technology	CMOS
Video Capture Resolution	720p
Voltage	12 Volts
Lux Rating	0.1 Lux
Real Angle of View	360 Degrees (Rotatable Lens)
Installation Type	Surface Mount
Connector Type	RCA
Item Weight	7.2 ounces
Package Dimensions	6 x 3.3 x 2.2 inches

7. WARRANTY AND SUPPORT

RAAYOO is committed to providing high-quality products and excellent customer service.

- **30-Day Money Back Guarantee:** If you are not satisfied with your purchase, you may return it within 30 days for a full refund.
- **1-Year Replacement Warranty:** The RAAYOO L001 camera is covered by a 1-year replacement warranty from the date of purchase against manufacturing defects.
- **Lifetime Support Guarantee:** RAAYOO offers lifetime technical support for this product.
- **Customer Service:** Our reliable and friendly customer service team is ready to respond within a 24-hour timeframe.

For support, please visit the official RAAYOO store on Amazon or contact us directly through the platform.