

ATOTO AC-RCR04W

ATOTO AC-RCR04W 1080P Rearview Recording Camera Instruction Manual

Model: AC-RCR04W

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ATOTO AC-RCR04W 1080P Rearview Recording Camera. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

2. PRODUCT FEATURES

- **1080P Resolution & HDR:** Delivers clear images with High Dynamic Range technology, enhancing visibility in low-light conditions.
- **Smart Adjustments:** Automatic gain control and backlight compensation features ensure optimal image quality in varying light environments.
- **145° Wide-Angle View:** Captures a broad field of view, reducing blind spots and providing comprehensive coverage of the area behind the vehicle.
- **Live Rear View:** Provides real-time video feed of the rear environment, useful for observing traffic and enhancing driving safety, especially when the rearview mirror view is obstructed.
- **IP67 Waterproof:** Designed to withstand harsh weather conditions, ensuring reliable performance in rain, snow, and dust.
- **Low Power Consumption:** Operates efficiently with just 0.45W of power.
- **Wide Operating Temperature:** Functions reliably in temperatures ranging from -4°F to +158°F.
- **Compatibility:** Specifically designed to work with ATOTO S8 UN, S8G2A74MS, S8G2094MS series head units for recording functionality. For S8 PN and S8G2B74MS, it provides real-time view only.

3. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- ATOTO AC-RCR04W Rear Recording Camera
- Extension Cable (8m/26ft)
- Online Manual Page (access details provided)



AC-RCR04W Rear Recording Camera



Extension Cable for AC-RCR04W
(8m/26ft)



Online Manual Page

Figure 1: Package contents including the AC-RCR04W camera, extension cable, and information for the online manual.

4. SPECIFICATIONS

Specification	Value
Model	AC-RCR04W
Resolution	1080P
Dynamic Range	HDR
Viewing Angle	145° (Diagonal)
Waterproof Rating	IP67
Power Consumption	0.45W
Operating Temperature	-4°F to +158°F
Optical Sensor Technology	CMOS
Connector Type	RCA

5. INSTALLATION GUIDE

Proper installation is crucial for optimal performance. If you are unsure about any steps, it is recommended to seek professional assistance.

5.1. Preparation

- Ensure your ATOTO head unit is compatible with the AC-RCR04W camera.
- Gather necessary tools: screwdriver set, wire strippers, electrical tape, zip ties, drill (if required for mounting).
- Disconnect the vehicle's battery before starting any electrical work.

5.2. Mounting the Camera

The AC-RCR04W camera is designed for rearview mounting, typically near the license plate area.

1. Identify a suitable mounting location that provides a clear, unobstructed view of the rear. The included bracket is often designed to fit behind the license plate.
2. Securely attach the camera using screws or other appropriate fasteners. Ensure the camera is oriented correctly for the desired viewing angle.



Figure 2: The ATOTO AC-RCR04W camera with its mounting bracket.

5.3. Wiring the Camera

Carefully route the camera's wiring through the vehicle to the head unit. Ensure wires are protected from heat, sharp edges,

and moving parts.

1. Connect the camera's video output (yellow RCA connector) to the video input on your ATOTO head unit using the provided extension cable.
2. Connect the camera's power wire (red) to the vehicle's reverse light circuit. This will power the camera when the vehicle is in reverse.
3. Connect the camera's ground wire (black) to a suitable chassis ground point on the vehicle.
4. If your head unit supports a trigger wire for automatic camera display, connect the camera's trigger wire (often a thin red wire integrated with the RCA cable) to the head unit's reverse trigger input.



Figure 3: Example of wiring connections for the rearview camera. Consult your head unit's manual for specific input locations.

5.4. Connecting to the Head Unit

Ensure all connections are secure and properly insulated.

1. Connect the RCA video cable from the camera to the designated 'CAM IN' or 'REAR CAM' input on your ATOTO head unit.
2. Connect the reverse trigger wire (if applicable) from the camera's power source to the head unit's reverse trigger input.
3. Reconnect the vehicle's battery.

5.5. Testing the Installation

After installation, perform a test to confirm proper operation.

1. Turn on your vehicle and the ATOTO head unit.
2. Shift the vehicle into reverse. The camera feed should automatically display on the head unit screen.
3. Check the image quality, viewing angle, and ensure the display is clear and stable.

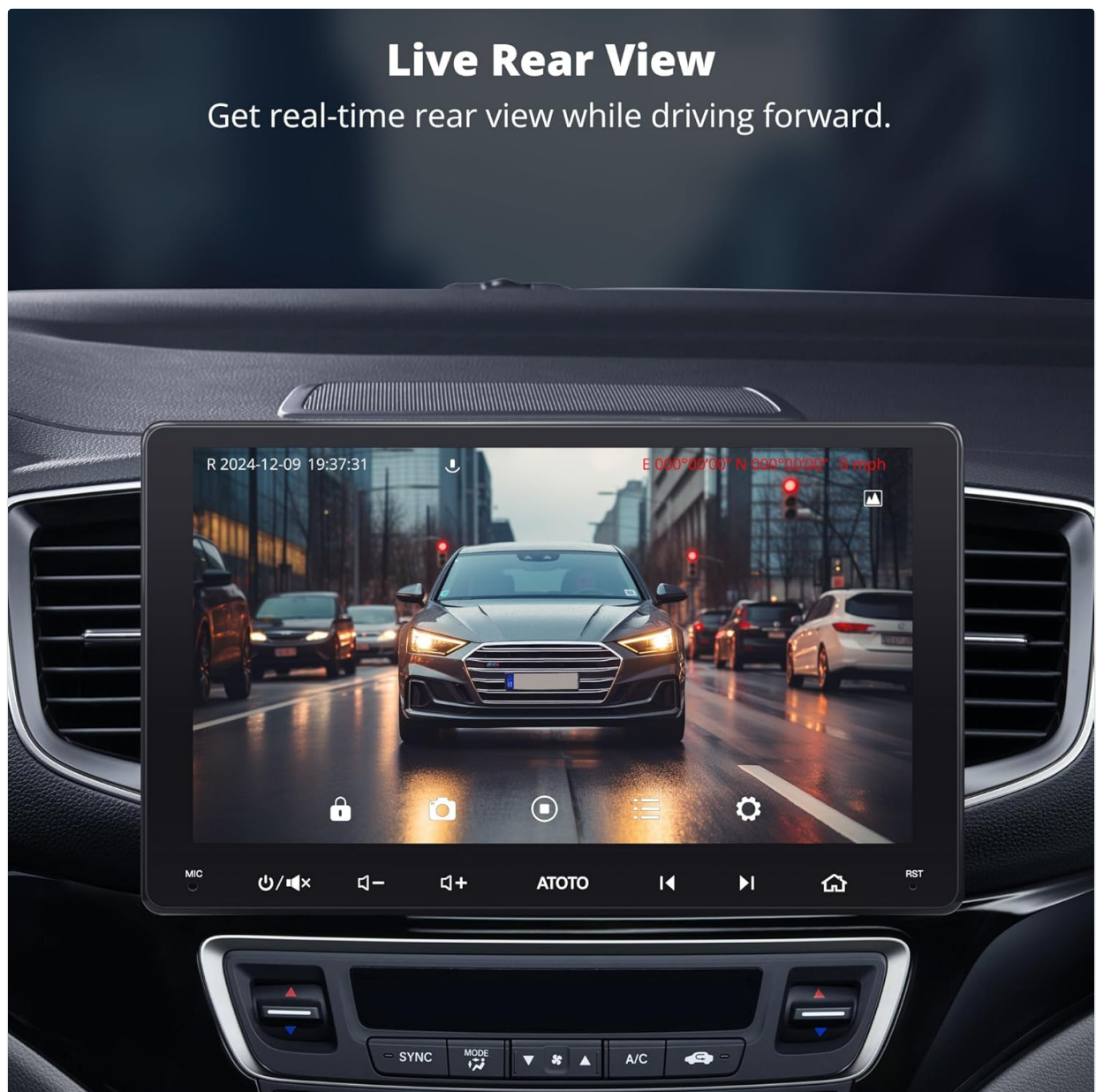


Figure 4: Example of the Live Rear View displayed on a compatible ATOTO head unit.

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Video 1: Demonstration of an ATOTO S8G2094MS head unit, which is compatible with the AC-RCR04W camera. This video showcases the head unit's interface and general functionality, providing context for how the camera display integrates.

6. OPERATING INSTRUCTIONS

6.1. Live Rear View

The AC-RCR04W camera supports a Live Rear View feature, which allows you to see the rear environment in real-time.

- When the vehicle is in reverse, the camera feed will automatically appear on your compatible ATOTO head unit.
- For continuous monitoring while driving forward, ensure your head unit model (e.g., S8 UN, S8G2A74MS, S8G2094MS) supports this specific recording functionality. For S8 PN and S8G2B74MS, the camera provides real-time view only.



Figure 5: The 145° wide-angle view provides extensive coverage behind the vehicle.

6.2. Image Adjustments

The camera automatically adjusts for optimal image quality, but you can fine-tune settings via your head unit if available.

- **Backlight Compensation (BLC):** Improves visibility in scenes with strong backlighting.
- **Automatic Gain Control (AGC):** Dynamically adjusts image brightness for clearer visuals.

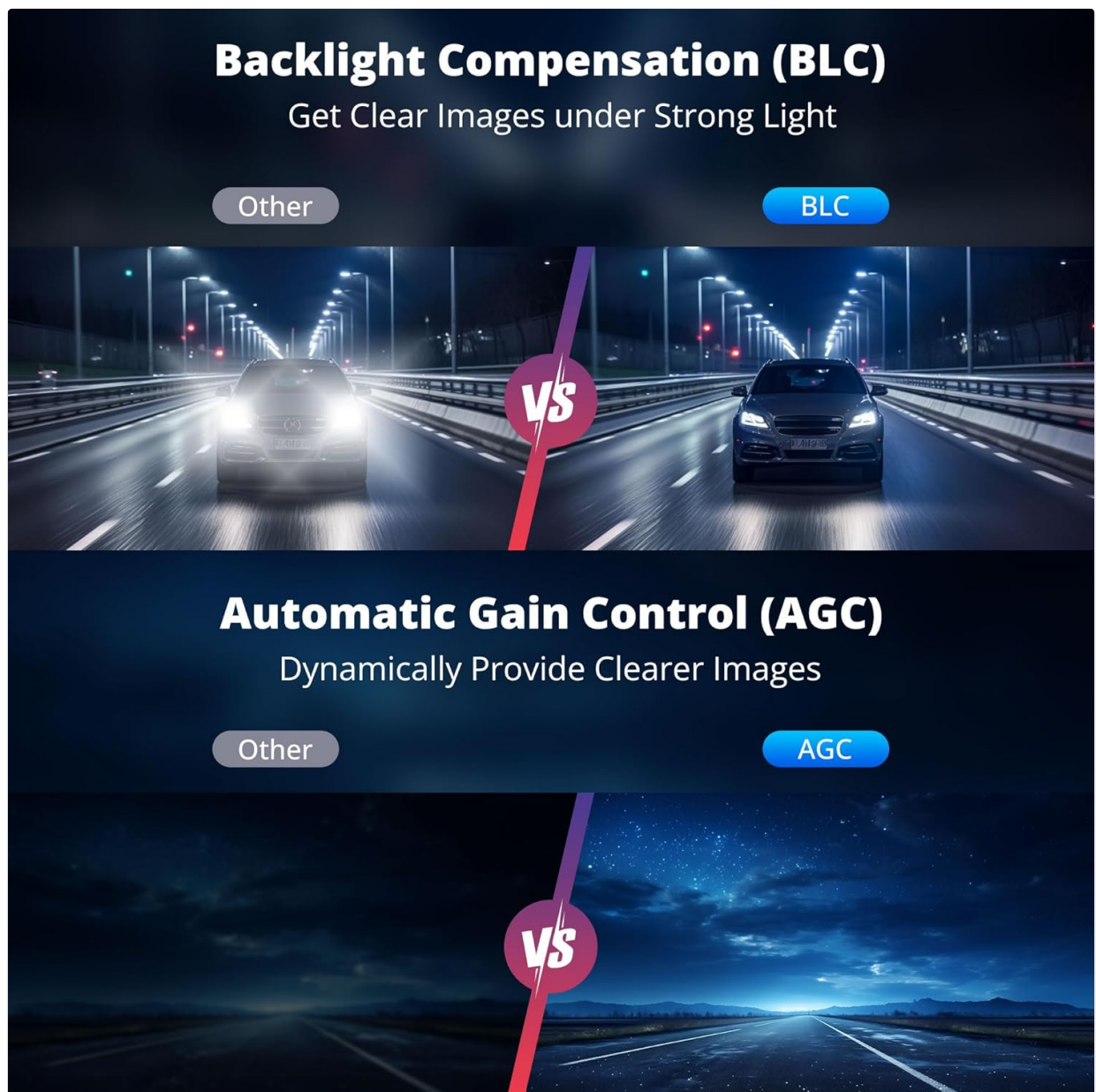


Figure 6: Visual comparison demonstrating the effectiveness of Backlight Compensation and Automatic Gain Control.

7. MAINTENANCE

To ensure the longevity and optimal performance of your camera, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the camera lens with a soft, damp cloth to remove dirt, dust, or water spots. Avoid abrasive cleaners.
- **Connection Check:** Periodically inspect all wiring connections for any signs of wear, corrosion, or looseness. Secure any loose connections.
- **Environmental Protection:** The IP67 rating provides good protection, but avoid directing high-pressure water jets directly at the camera for extended periods.

8. TROUBLESHOOTING

If you encounter issues with your AC-RCR04W camera, refer to the following common problems and solutions:

- **No Image Display:**
 - Check all video and power connections to ensure they are secure.
 - Verify that the reverse trigger wire (if used) is correctly connected to both the camera's power source and the head unit.

- Ensure your ATOTO head unit is set to the correct camera input.
- **Poor Image Quality (Blurry/Distorted):**
 - Clean the camera lens.
 - Check for any physical obstructions blocking the camera's view.
 - Ensure the video cable is not damaged or experiencing interference.
- **Intermittent Signal:**
 - Inspect all connections for looseness or corrosion.
 - Ensure the power supply to the camera is stable.

9. WARRANTY AND SUPPORT

Your ATOTO AC-RCR04W camera comes with a **12-month product care** period from the date of purchase. For any issues or support needs, please refer to the customer care details provided in your product packaging or visit the official ATOTO website.

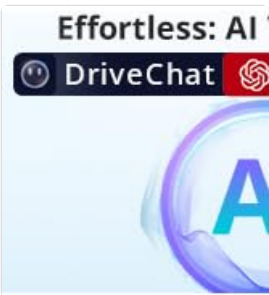





Figure 7: ATOTO provides 12 months of product care for your device.

Related Documents - AC-RCR04W

<div><p>A5 User Manual</p><p>FCC Statement</p><p>ATOTO A5 User Manual: Comprehensive Guide to Car Multimedia System Features</p></div>	<p>ATOTO A5 User Manual: Comprehensive Guide to Car Multimedia System Features</p> <p>Detailed user manual for the ATOTO A5 car multimedia system, covering Bluetooth, CarPlay, Android Auto, Mirroring, Navigation, Radio, Camera Input, AUX, DSP, Network, FOTA, TrackHU, DAB+, SWC, Fast Boot, Split Screen, Image Scan, Settings, and Specifications.</p>
<div><p>X10 取扱説明書</p><p>注意事項</p><p>ATOTO X10</p><p>ATOTO X10</p></div>	<p>ATOTO X10</p> <p>Bluetooth CarPlay/Android Auto DVR</p>
<div><p>P8</p><p>ATOTO P8 Multi-Functional On-Dash Navigator User Manual</p></div>	<p>ATOTO P8 Multi-Functional On-Dash Navigator User Manual</p> <p>Comprehensive user manual for the ATOTO P8 Multi-Functional On-Dash Navigator, covering installation, operation, features like Bluetooth, CarPlay, Android Auto, camera functions, and troubleshooting.</p>

	<p>ATOTO P5 Multi-Functional On-Dash Navigator User Manual</p> <p>Comprehensive user manual for the ATOTO P5 Multi-Functional On-Dash Navigator, covering installation, features like Bluetooth and Phone Link (CarPlay/Android Auto), audio settings, media playback, camera connections, and system settings.</p>
	<p>ATOTO A6 Car Stereo Basic Operation and Connection Guide</p> <p>User guide for the ATOTO A6 car stereo, detailing basic operation, connectivity, wiring pinouts, and installation precautions for optimal performance.</p>
	<p>ATOTO A6 System Update Instructions</p> <p>Detailed instructions for updating the ATOTO A6 system software, including checking the current version, downloading the update file, and performing the installation.</p>