

Erisin ES586

Erisin ES586 HD 1080P AHD Rear View Camera Instruction Manual

Model: ES586

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Erisin ES586 HD 1080P AHD Rear View Camera. Please read this manual thoroughly before installation and use to ensure proper function and safety.

The Erisin ES586 camera features high-resolution imaging, a wide 150-degree fisheye lens, and advanced night vision capabilities. It is designed for universal compatibility with car multimedia systems that support AHD 1080P or AHD 720P video formats.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x Erisin ES586 AHD 720P and 1080P Rear View Camera
- 1 x 6-meter Video and Power Cable
- 1 x Installation Accessory Kit (e.g., screws, washers)
- 1 x User Manual (English)



Image: Package contents of the Erisin ES586 rear view camera, showing the camera unit, 6-meter video and power cable, installation fittings, and user manual.

3. SPECIFICATIONS

Feature	Specification
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Sensor	CC2053 1080P 1/2.9 CMOS
Effective Pixels	1920(H) x 1080(V)
TV System	NTSC/PAL
Video Output	AHD 1080P / AHD 720P
Frame Rate	25 fps (AHD 1080P / AHD 720P)
Noise Reduction	3DNR / 2DNR
SNR	38 dB
Lens Angle	150 degrees (Fisheye)
Minimum Illumination	0.001 lux (F1.2, AGC ON), 0 lux with IR
Power Supply	DC 5V (±20%)
Operating Temperature	-20 °C ~ +80 °C
Operating Humidity	RH90% max
Waterproof Rating	IP68
Video Cable Length	6 meters (RCA)
Dimensions (approx.)	28mm (top width) x 32mm (height) x 25mm (bottom width)
Housing Material	Metal



Image: Demonstrates the wide fisheye view and the camera's night vision performance, showing clear images in both day and night conditions.

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. Follow these steps carefully:

4.1 Camera Placement

Install the camera at the rear of your vehicle, typically between the license plate lights, above the license plate, or in another suitable location that provides a clear view of the rear. Ensure the camera is securely mounted.



Image: Illustrates the recommended mounting position for the camera and an overview of the wiring connections to the car's multimedia system.

4.2 Wiring Connection

Connect the camera to your car's multimedia system and power supply as follows:

- 1. Power Connection:** Connect the camera's red power wire to the reversing light's positive (DC 12V+). Connect the black power wire to the reversing light's negative (GND). This ensures the camera powers on automatically when reverse gear is engaged.

2. **Video Connection:** Connect the yellow RCA video output cable from the camera to the "CAM-IN" or "Reverse Video Input" port on your car's multimedia player.
3. **Trigger Wire (if applicable):** If your car multimedia system has a reverse control cable (often labeled "BACK" or "REVERSE"), connect the trigger wire (usually a thin red wire integrated with the video cable) to this control cable. This tells the multimedia system to switch to the camera view when reverse is selected.



Image: A comprehensive diagram detailing the power and video connections from the camera to the car's electrical system and display unit.

Important Notes:

- The camera will only power on when your car is in reverse gear, and the reversing light is activated. The reversing image will then be displayed on your monitor.
- This camera is compatible with NTSC and PAL monitors. Most modern monitors will automatically switch between PAL and NTSC formats.
- Ensure your car's multimedia system supports AHD 1080P or AHD 720P video formats. If your system only supports CVBS NTSC/PAL, this camera will not be compatible.

5. OPERATING INSTRUCTIONS

The Erisin ES586 camera offers adjustable settings via control cables to suit your preferences and multimedia system requirements.

5.1 Control Cable Adjustment

Two small wires are integrated into the camera's cable harness for mode selection:

- **Blue Cable (Video Resolution):**
To switch to **AHD 1080P** mode, **cut the blue cable**. The camera will operate in 1080P resolution.
To retain **AHD 720P** mode, **keep the blue cable intact**.
- **White Cable (Parking Guide Lines):**
To **disable the parking guide lines** on the display, **cut the white cable**.
To **enable the parking guide lines**, **keep the white cable intact**.

Note:

- Perform these adjustments **before** connecting the camera to your car stereo.
- After cutting a cable, ensure the exposed wire is properly insulated to prevent short circuits.



Image: Visual guide on how to cut the blue cable for 1080P function and the white cable to toggle parking guide lines.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Erisin ES586 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 that could scratch the lens.
- **Connection Check:** Periodically inspect all cable connections to ensure they are secure and free from

corrosion or damage.

- **Environmental Protection:** While the camera is IP68 waterproof, extreme conditions can still affect performance. Avoid prolonged exposure to harsh chemicals or high-pressure water jets directly on the camera.

7. TROUBLESHOOTING

If you encounter issues with your Erisin ES586 camera, refer to the following common problems and solutions:

- **No Image on Monitor:**
 - Ensure the camera is receiving power. Check the connection to the reversing light.
 - Verify the video cable is securely connected to both the camera and the car multimedia system.
 - Confirm your car multimedia system is set to the correct video input (e.g., "CAM-IN" or "REVERSE").
 - Check if your multimedia system supports AHD 1080P/720P. If it only supports CVBS, the camera will not display an image.
- **Flickering or Distorted Image:**
 - Check for loose connections in the power or video cables.
 - Ensure the power supply is stable (DC 5V). Fluctuations can cause image instability.
 - Verify that the camera's video format (AHD 720P/1080P) matches the capabilities of your multimedia system.
- **Parking Guide Lines Not Appearing/Disappearing:**
 - Check the white control cable. If you want guide lines, ensure it is intact. If you do not want them, ensure it is cut.
- **Poor Night Vision:**
 - Ensure the camera lens is clean and free from obstructions.
 - Verify that the camera's IR illuminators (if visible) are not blocked.

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

8. WARRANTY AND SUPPORT

Erisin products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official Erisin website.

For technical support, troubleshooting assistance, or inquiries regarding your Erisin ES586 Rear View Camera, please contact Erisin customer service through their official channels. When contacting support, please have your product model number (ES586) and purchase details ready.