

IMSTAM LI1984921

Smartour 4K AHD 1080P Rear View Camera Instruction Manual

Brand: IMSTAM | Model: LI1984921

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Smartour 4K AHD 1080P Rear View Camera. This high-definition camera is designed to enhance vehicle safety by providing clear rear or front views, featuring advanced night vision and a wide viewing angle. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

Key Features:

- **Resolution:** Supports CVBS/AHD 1080P with CCD 1335 imaging sensor (1296*1080P HD pixels).
- **Viewing Angle:** 180-degree wide viewing angle, similar to a fisheye lens.
- **Versatility:** Can be used as either a front or rear-view camera.
- **Night Vision:** Equipped with HD night vision capabilities for clear images in low-light conditions.
- **Durability:** High grade of waterproofing (IP68) for reliable performance in various weather conditions.
- **Compatibility:** Compatible with Android DVD players and any TFT Car Monitor.
- **Optional Features:** Includes an optional distance scale line for parking assistance.

2. SAFETY INFORMATION

Please observe the following safety precautions to prevent damage to the product or injury to yourself:

- Always disconnect the vehicle's battery before performing any electrical work to avoid short circuits.
- Ensure all wiring is properly insulated and secured to prevent pinching or damage.
- Do not attempt to disassemble or modify the camera. This may void the warranty and cause damage.
- If you are unsure about the installation process, it is highly recommended to seek professional assistance.
- Keep the camera lens clean and free from obstructions for optimal performance.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Smartour 4K AHD 1080P Rear View Camera
- Video Cable (6M RCA connector)
- Power Cable



Figure 3.1: Included components: Rear Camera, Video cable, and Power cable. Ensure all parts are present before proceeding with installation.

4. PRODUCT OVERVIEW

The Smartour camera is designed for compact and discreet installation, offering robust performance with its advanced lens system.



Figure 4.1: Dimensions of the Smartour camera, showing approximate measurements for installation planning.

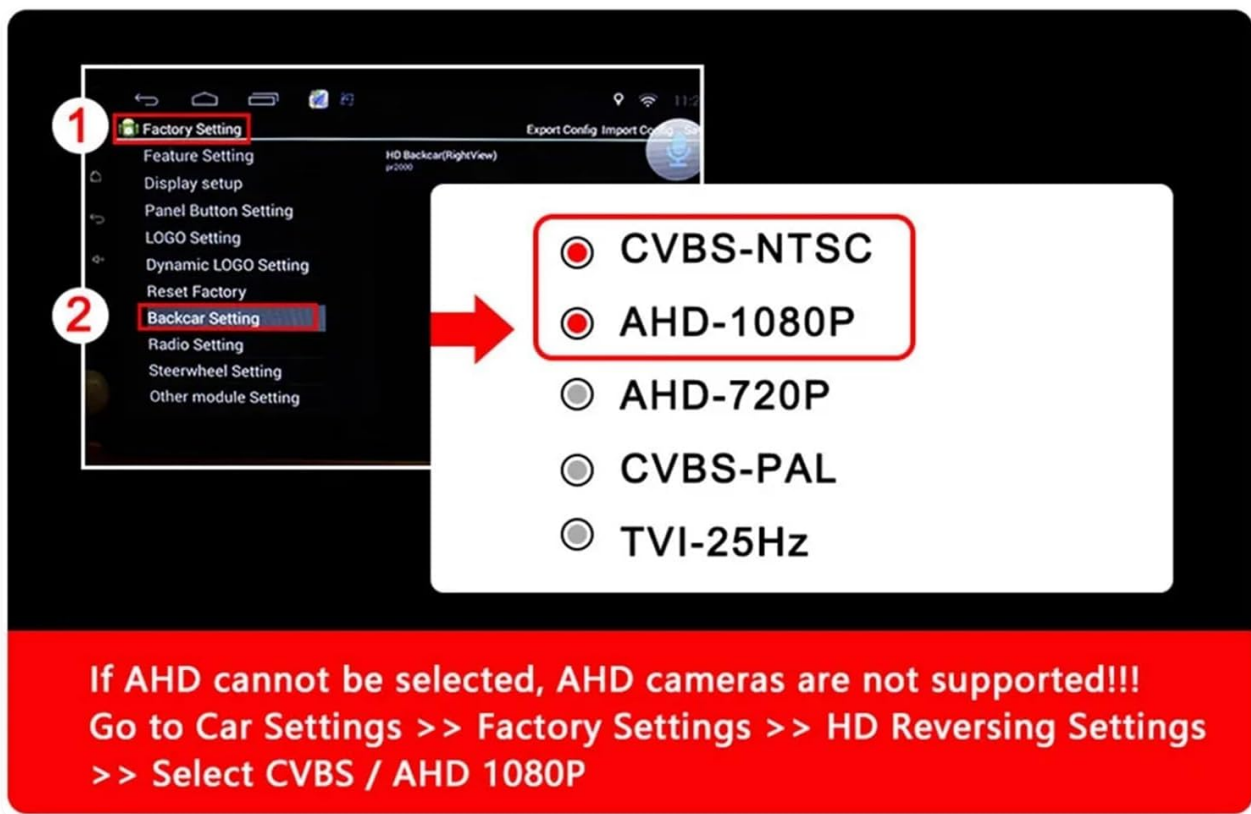


Figure 4.2: Illustration highlighting the 170-degree fisheye lens and AHD 1080P capability of the camera.

UPGRADE VERSION

The new generation of lenses is clearer and can filter out noise, making images clearer



IMPROVED 6 LENSES

Figure 4.3: Depiction of the upgraded lens system, featuring 6 improved lenses designed for clearer images and noise reduction.

5. SETUP AND INSTALLATION

The camera can be surface mounted. Follow these general steps for installation. Specific vehicle requirements may vary.

1. **Choose Installation Location:** Decide whether to install the camera as a front or rear-view camera. Common locations include above the license plate or integrated into the vehicle's trim.
2. **Mount the Camera:** Securely mount the camera using appropriate hardware. Ensure the camera has a clear, unobstructed view.
3. **Route Cables:** Carefully route the video and power cables from the camera to your car's monitor or Android DVD player. Ensure cables are not pinched or exposed to excessive heat/moisture.
4. **Connect Power:** Connect the power cable to a suitable power source in your vehicle (e.g., reverse light power for rear camera, ACC power for front camera).
5. **Connect Video:** Connect the RCA video connector to the video input of your monitor or Android DVD player.
6. **Configure Monitor (if necessary):** Access your monitor's settings to select the correct video input and camera type (CVBS or AHD).

5.1. System Configuration

For optimal performance, ensure your display system is configured to support AHD 1080P. If your system does not automatically detect AHD, manual selection may be required.



Figure 5.1: Example of a car system's factory settings menu, indicating where to select AHD-1080P for camera compatibility.
Navigate to Car Settings >> Factory Settings >> HD Reversing Settings >> Select CVBS / AHD 1080P.

6. OPERATING INSTRUCTIONS

The Smartour camera offers flexible operation modes controlled by specific wires. These wires are typically found near the camera's main cable harness.



Figure 6.1: Control lines for various camera functions: Blue for CVBS/AHD switch, Green for Front/Rear view switch, and White for ruler line switching.

- CVBS/AHD 1080P Switch (Blue Line):**
 To switch between CVBS and AHD 1080P video output, cut the **blue line**. This allows compatibility with different monitor types. Ensure your monitor supports the selected format.
- Front/Rear View Switch (Green Line):**
 To change the camera's orientation between front view and rear view (mirror image), cut the **green line**. This is useful if you want to use the camera for both front and rear applications.
- Ruler Line Switching (White Line):**
 To enable or disable the parking assistance ruler lines on the display, cut the **white line**. This provides flexibility for users who prefer or do not prefer the overlay.

Note: Cutting these lines is a permanent change. Ensure you understand the desired function before cutting.

7. MAINTENANCE

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

- **Cleaning the Lens:** Regularly clean the camera lens with a soft, damp cloth. Avoid abrasive cleaners or materials that could scratch the lens.
- **Check Connections:** Periodically inspect all cable connections to ensure they are secure and free from corrosion or damage.
- **Waterproof Design:** The camera has an IP68 waterproof rating, meaning it is protected against dust and can withstand immersion in water up to 1.5 meters for 30 minutes. However, avoid prolonged submersion or high-pressure water jets directly on the camera.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No image on screen / Black screen	Loose cable connection, incorrect video input selected, no power to camera.	Check all cable connections (power and video). Ensure the monitor is set to the correct video input. Verify the camera is receiving power.
Image is distorted or flickering	Poor video signal, interference, incorrect video format (CVBS/AHD).	Ensure video cables are not damaged or routed near strong electrical interference. Verify the camera's output format (CVBS/AHD) matches your monitor's input. Try cutting the blue line to switch formats.
AHD 1080P option not available in car settings	Your car's head unit/monitor does not support AHD cameras.	If your head unit does not offer AHD selection, it may not be compatible with AHD cameras. Ensure you have navigated to the correct settings: Car Settings >> Factory Settings >> HD Reversing Settings >> Select CVBS / AHD 1080P. If still unavailable, your system may only support CVBS.
Parking lines not appearing/disappearing	White control line not cut/cut incorrectly.	Check the white control line. Cut it to toggle the parking lines.
Image is mirrored/not mirrored incorrectly	Green control line not cut/cut incorrectly.	Check the green control line. Cut it to toggle between front and rear view (mirror image).

9. SPECIFICATIONS

Feature	Specification
Model Number	LI1984921
Optical Sensor Technology	CCD

Feature	Specification
Real Angle of View	180 Degrees
Compatible Devices	Monitor (Android DVD player, TFT Car Monitor)
Installation Type	Surface Mount
Waterproof Rating	IP68
Video System	NTSC (Supports CVBS/AHD 1080P)
Item Weight	1.76 ounces
Package Dimensions	1.18 x 0.79 x 0.39 inches
Number of Pieces	1 (Camera unit)

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the seller directly. The manufacturer of this product is LI1984921.

Please retain your proof of purchase for any warranty claims.