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## AINAVI 5 Channels 1080P Wired Backup Camera System

# AINAVI 5-Channel 1080P Wired Backup Camera System User Manual

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your AINAVI 5-Channel 1080P Wired Backup Camera System. This system features a 10-inch touchscreen monitor, five 1080P wired cameras, integrated CarPlay and Android Auto functionality, and DVR recording capabilities. It is designed for use in various large vehicles including RVs, trucks, trailers, campers, vans, and SUVs, enhancing visibility and driving safety.

## 2. SAFETY INFORMATION

- Always ensure the system is installed by a qualified professional if you are unsure about any steps.
- Disconnect the vehicle's battery before performing any electrical work.
- Ensure all wiring is properly secured and protected from heat, sharp edges, and moving parts.
- Do not obstruct the driver's view or interfere with vehicle controls when mounting the monitor.
- The camera system is an aid to safe driving and should not replace careful observation and judgment.
- Regularly check camera lenses for cleanliness to ensure clear images.

## 3. PACKAGE CONTENTS

Verify that all components are present in your package:

- 10" Touchscreen Monitor X 1
- 5 Channels 1080P Wired Backup Camera X 5
- Stand base
- Power Cable
- 16.4 ft Camera Cable X 3
- 49.2 ft Camera Cable X 1

- 32.8 ft Camera Cable X 2
- TF Card (64GB)
- Product manual

## Product Size



## Accessories



Stand base



1080P Camera \* 5



Power Cable



16.4 ft Camera Cable\*3



49.2 ft Camera Cable\*1



32.8 ft Camera Cable\*2



TF Card



Product manual

Figure 3.1: System components and product dimensions.

## 4. PRODUCT OVERVIEW

The AINAVI system provides comprehensive vehicle monitoring with its 10-inch touchscreen and five 1080P cameras. The monitor serves as the central control unit, displaying camera feeds, navigation, and multimedia content.



Figure 4.1: AINAVI 5-Channel 1080P Wired Backup Camera System.



Figure 4.2: Monitor user interface.

## 5. SETUP & INSTALLATION

### 5.1 Monitor Mounting Options

The monitor offers flexible mounting options to suit various vehicle interiors:

- **Stand Bracket:** For dashboard mounting.
- **Stand Sticker:** For alternative dashboard placement.
- **Hanger Bracket:** For overhead mounting.

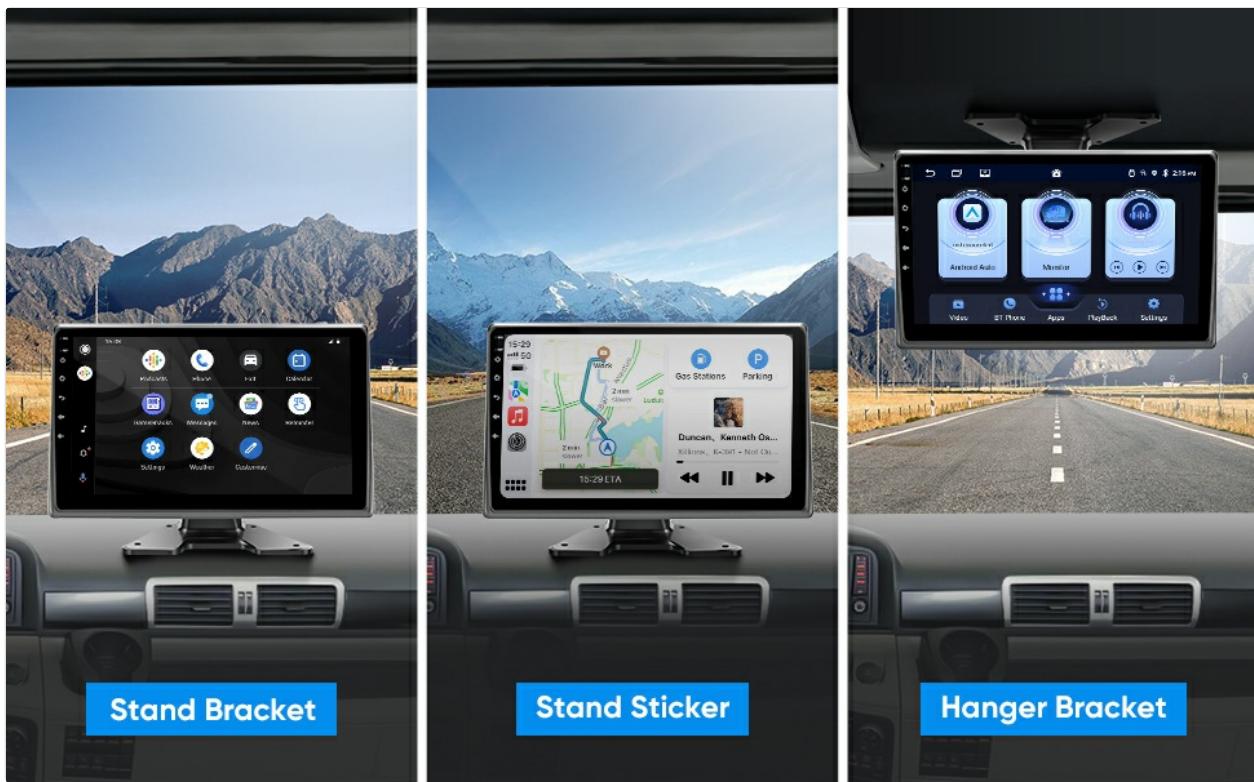


Figure 5.1: Monitor mounting options.

## 5.2 Wiring Diagram

The system supports both cigarette lighter power (12-24V) and hardwired power (12-36V). Connect the cameras to the monitor's main cable, ensuring proper connection for each camera (right view, left view, rearview). For automatic full-screen camera display when using turn signals or reversing, connect the corresponding trigger wires.

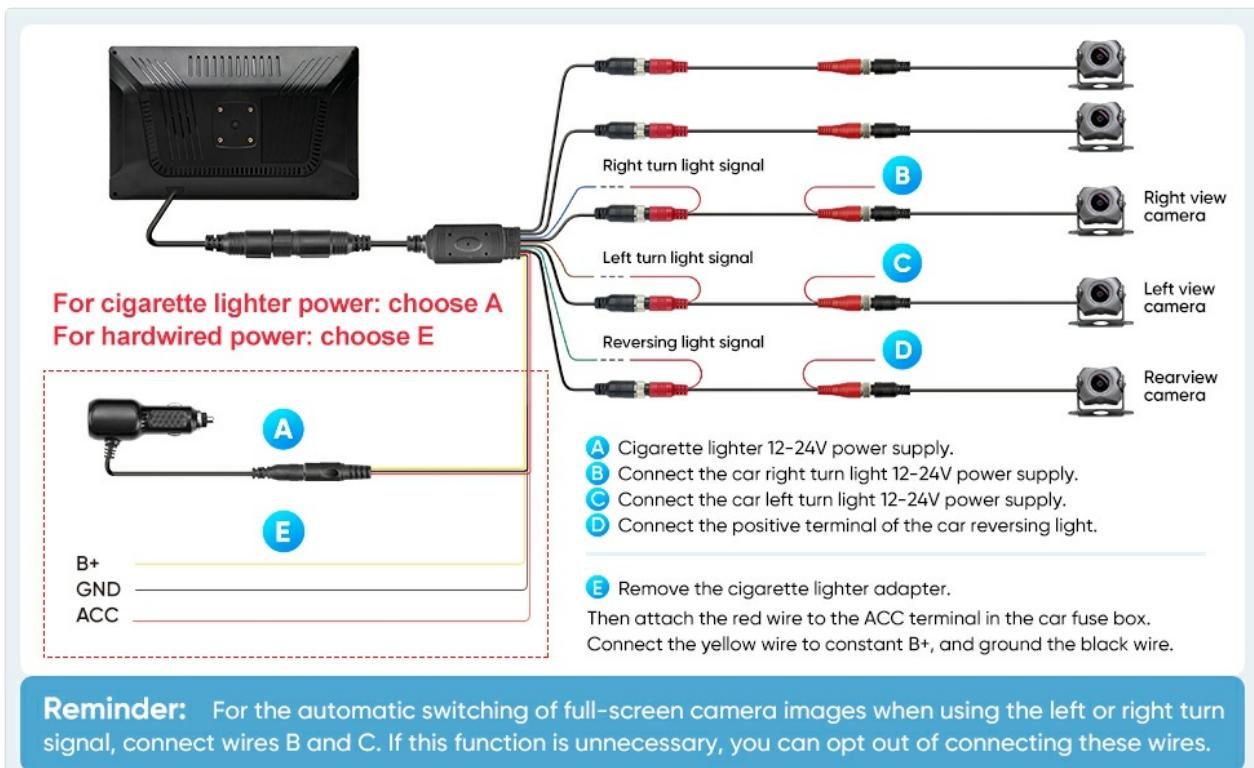


Figure 5.2: Wiring diagram for the AINAVI 5-Channel Camera System.

**Reminder:** For automatic switching of full-screen camera images when using the left or right turn signal, connect wires B and C. If this function is unnecessary, you can opt out of connecting these wires.

## 6. OPERATION

### 6.1 Monitor Functions

The 10-inch touchscreen monitor allows you to view up to five camera feeds simultaneously in a split-screen display. Navigate through menus by touching the screen. The monitor runs on Android 11 OS, providing a responsive user experience.

### 6.2 CarPlay & Android Auto

The system supports both wireless and wired CarPlay and Android Auto. Connect your smartphone to access navigation, make calls, send/receive messages, and play music directly from the monitor. Voice commands via "Hey Siri" or "Hey Google" are supported.



Figure 6.1: Wireless CarPlay and Android Auto interface.

### 6.3 Camera Views and Blind Spot Reduction

The system provides a 360-degree view around your vehicle, significantly reducing blind spots. The five cameras offer a comprehensive perspective, especially useful for large vehicles.



Figure 6.2: Vehicle Cameras System with 10.1 Inch Android Monitor.

# 360° View Without Blind Spots

Supports 12-36V power input, suitable for most vehicles. Provide 5 channels of 1080P camera. Automatically display in the big screen while Left Turn/Right Turn/ Reversing.



Figure 6.3: 360-degree view without blind spots.

## 6.4 Parking Assist Lines

Adjustable parking assist grid lines are available on the monitor to aid in safer backing up and parking maneuvers.

# Wider Angle and Clear Vision

Adjustable parking assist grid lines make it safer to back up & park your car.



Figure 6.4: Wider angle and clear vision with parking assist lines.

## 6.5 DVR Recording

The system supports DVR recording, capturing footage from the cameras. This feature can be useful for documenting driving events.



Figure 6.5: DVR recording playback.

## 7. MAINTENANCE

- **Cleaning the Monitor:** Use a soft, dry cloth to clean the monitor screen. For stubborn smudges, a slightly damp cloth with a mild screen cleaner can be used. Avoid harsh chemicals.
- **Cleaning the Cameras:** The cameras are IP69 waterproof, designed to withstand harsh weather. Periodically clean the camera lenses with a soft, damp cloth to remove dirt, dust, or water spots that may obscure the view.
- **Cable Inspection:** Regularly inspect all cables for any signs of wear, damage, or loose connections. Secure any loose cables to prevent interference or damage.
- **Software Updates:** Check for any available software updates for the monitor's Android OS to ensure optimal performance and access to new features.



Figure 7.1: IP69 Waterproof Camera.

## 8. TROUBLESHOOTING

- **No Power to Monitor:**

- Check power cable connections. Ensure the cigarette lighter adapter is fully inserted or hardwired

connections are secure.

- Verify the vehicle's power outlet is functional.

- **No Camera Signal:**

- Ensure all camera cables are securely connected to the monitor's main harness.
- Check for any damage to the camera cables.
- Confirm cameras are receiving power.

- **Image Quality Issues (Blurry/Distorted):**

- Clean camera lenses. Dirt or water spots can affect image clarity.
- Ensure camera connections are tight.
- Verify the monitor's display settings.

- **CarPlay/Android Auto Not Connecting:**

- Ensure your smartphone's Bluetooth and Wi-Fi are enabled.
- Try connecting via a USB cable if wireless connection fails.
- Restart both the monitor and your smartphone.

- **Monitor is Slow/Unresponsive:**

- Close unnecessary applications running in the background.
- Perform a system restart.
- Ensure sufficient storage space on the internal memory or TF card.

- **Incorrect Camera View Displayed:**

- Verify that the camera cables are connected to the correct input channels on the main harness.

## 9. SPECIFICATIONS

Feature	Specification
Monitor Screen Size	10.1 Inches
Display Technology	LCD
Operating System	Android 11
RAM + ROM	2GB RAM + 32GB ROM
Camera Resolution	1080p
Number of Camera Channels	5
Camera Waterproof Rating	IP69
Camera Sensor Technology	CCD
Camera Angle of View	170 Degrees
Operating Voltage	12-36V DC
Product Dimensions	1" L x 1" W x 1" H (Monitor)
Item Weight	9.86 pounds

## 10. WARRANTY & SUPPORT

AINAVI provides a one-year product warranty for this system. For technical support, installation questions, or

warranty claims, please contact our customer service team.

## Contacting Support:

1. Visit the Amazon product page.
2. Click on the seller name (HomeCar).
3. Click "Ask a question" to send a message.

When contacting support, please provide details of your issue, including any relevant pictures or videos, to help us assist you efficiently.

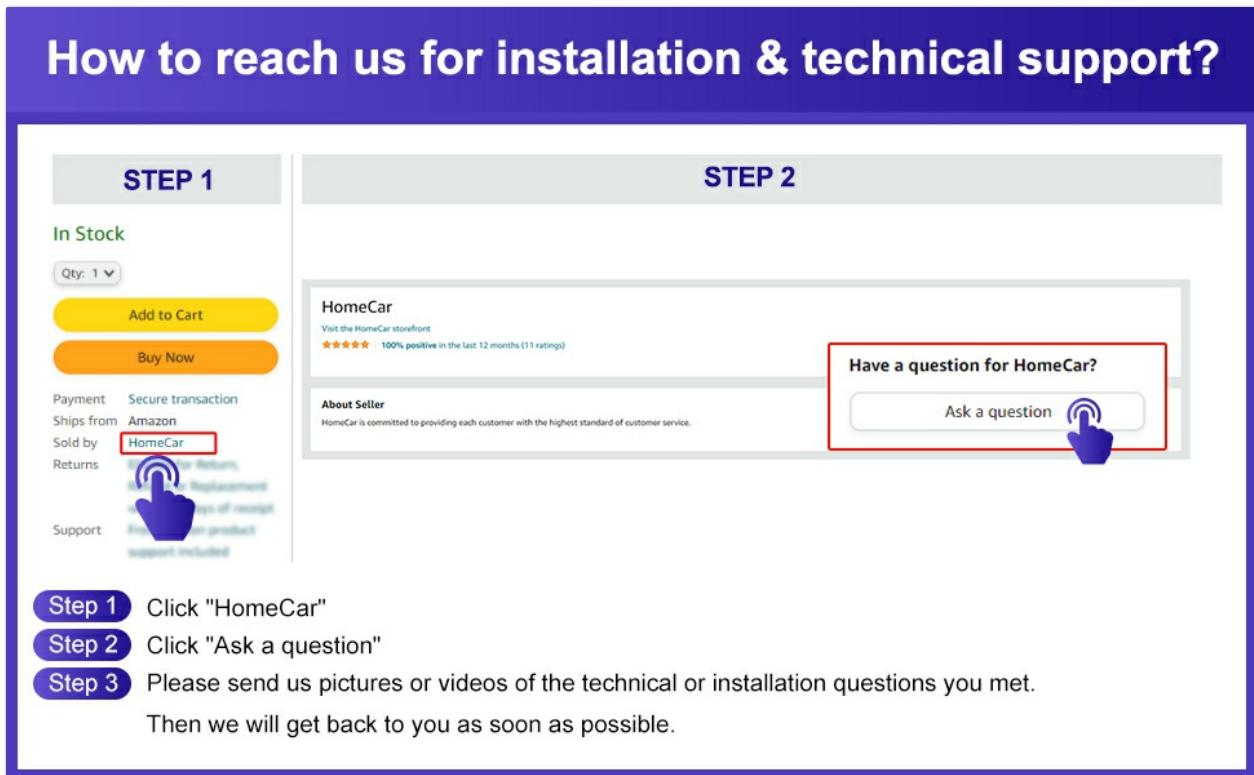


Figure 10.1: How to reach customer support.