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› [eRapta HD 1080p Backup Camera System Kit with 10-inch Monitor and 4 Cameras \(Model AYX104\) - Instruction Manual](#)

## eRapta AYX104

# eRapta HD 1080p Backup Camera System Kit (Model AYX104)

10-inch Reversing Monitor with Quad Split Recording and 4 IP69 Waterproof Cameras

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your eRapta HD 1080p Backup Camera System Kit. This system is designed to enhance driving safety and visibility for various large vehicles, including RVs, trailers, motorhomes, trucks, campers, tractors, and box trucks, operating on a DC 12-24V power supply. It features a 10-inch high-resolution monitor with quad-split display capabilities and four IP69K waterproof cameras for comprehensive surveillance.



Figure 1: eRapta HD 1080p Backup Camera System Kit showing the 10-inch monitor and four cameras.

## 2. SAFETY INFORMATION

- **Professional Installation Recommended:** For optimal performance and safety, professional installation is advised.
- **Power Supply:** Ensure the system is connected to a DC 12-24V power source. Incorrect voltage may damage the unit.
- **Wiring:** Secure all wiring to prevent interference, short circuits, or damage from vehicle movement and environmental factors.
- **Waterproofing:** While cameras are IP69K rated, ensure all cable connections are properly sealed and protected from moisture.
- **Visibility:** Do not obstruct the monitor or camera views. Regularly clean camera lenses for clear images.
- **Driving Safety:** The camera system is an aid; always perform visual checks and exercise caution while driving or maneuvering your vehicle.

## 3. PACKAGE CONTENTS

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

- 1x 10-inch Monitor
- 2x Side Cameras

- 2x Rear Cameras
- 2x 33 ft (10m) Video Cables
- 2x 66 ft (20m) Video Cables
- 1x Power Cord
- 2x Monitor Brackets (U-shaped and Fan-shaped)
- 1x Remote Control
- Installation Kits (screws, mounting hardware)



Figure 2: Complete list of components included in the package.

## 4. SETUP AND INSTALLATION

### 4.1 Mounting the Monitor

1. Choose a suitable location on your dashboard or overhead console that does not obstruct your view or interfere with driving controls.
2. Attach the chosen bracket (U-shaped or fan-shaped) to the monitor using the provided screws.
3. Securely mount the monitor to the chosen surface. Ensure it is stable and can withstand vehicle vibrations.

### 4.2 Mounting the Cameras

The system includes two side cameras and two rear cameras. They can be installed in various positions to cover blind spots.

- **Rear Cameras:** Typically mounted at the rear of the vehicle, often above the license plate or on the bumper.
- **Side Cameras:** Mount on the left and right sides of the vehicle, usually near the rear-view mirrors or further back on the vehicle body, depending on the vehicle type (RV, truck, trailer).





Figure 3: Recommended camera installation points for comprehensive coverage.

### 4.3 Wiring Diagram and Power Connection

Follow the wiring diagram carefully to ensure correct connections. The system supports DC 12-24V power input.

1. Connect the red wire to the positive (+) terminal of an ACC (Accessory) power source.
2. Connect the yellow wire to a constant positive (+) power source.
3. Connect the black wire to a negative (-) ground point.
4. Connect the 4-pin extension cables from the cameras to the monitor's corresponding inputs. Ensure the notches on the connectors are aligned to prevent damage.
5. **Trigger Wires:** The brown, green, blue, and grey trigger wires (for CH1, CH2, CH3, CH4 respectively) can be connected to specific vehicle signals (e.g., reverse light, turn signals) to automatically switch camera views. This connection is optional and depends on your preference.

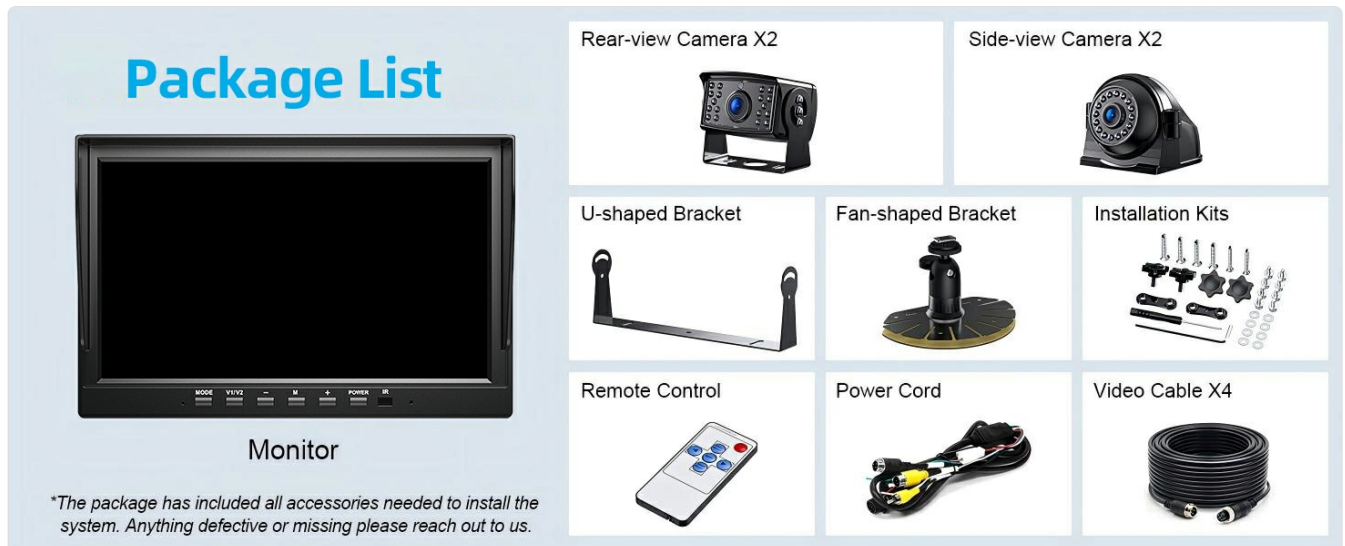


Figure 4: Wiring connections for the monitor and cameras.

### 4.4 Cable Management

Route all cables securely along the vehicle's frame or interior. Use cable ties to prevent loose wires that could interfere with moving parts or become damaged. Ensure cables are protected from heat, sharp edges, and moisture.

## 5. OPERATING INSTRUCTIONS

### 5.1 Powering On/Off

The monitor will power on automatically when the vehicle's ignition is turned on (if connected to ACC power) or when the designated

power switch is activated. Press the 'POWER' button on the monitor or remote control to manually turn the unit on or off.

## 5.2 Monitor Controls

The monitor features several buttons for navigation and settings adjustment. A remote control is also provided for convenience.

- **MODE:** Cycles through different display modes (single, dual, quad split).
- **CH:** Selects the active camera channel in single-view mode.
- **MENU:** Accesses the system settings menu.
- **+/-:** Adjusts settings or navigates menu options.
- **OK:** Confirms selections.

## 5.3 Viewing Modes

The 10-inch monitor supports various viewing configurations:

- **Full Screen:** Displays a single camera view.
- **Dual Split:** Shows two camera views simultaneously.
- **Quad Split:** Displays all four camera views at once, providing a comprehensive 360-degree perspective.



Figure 5: Different display modes for multi-camera viewing.

## 5.4 Loop Recording and Playback

The built-in DVR supports simultaneous recording from all cameras. The system automatically deletes older content when the SD card is full (up to 128GB supported).

- **Recording:** Insert an SD card (up to 128GB) into the monitor. Recording will begin automatically when the system is powered on.
- **Playback:** Access the 'Playback' option from the main menu to review recorded footage.



Figure 6: Loop recording functionality for continuous video capture.

## 5.5 Parking Guidelines Adjustment

The system allows for customization of parking guidelines to assist with maneuvering. You can adjust width, height, and horizontal position.

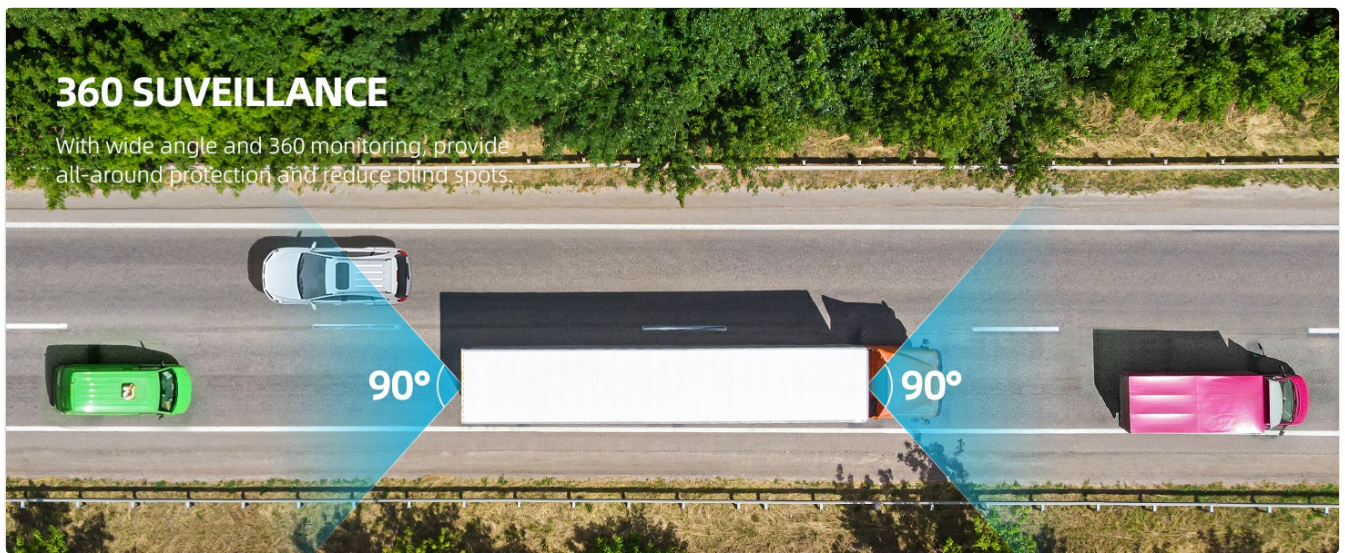


Figure 7: Customizable parking assistance lines for precise maneuvering.

## 5.6 Night Vision

The cameras are equipped with infrared lights and multi-layer glass lenses, combined with an ARM DSPS High-speed processor, to provide clear and colorful night images, enhancing visibility in low-light conditions.



# ARM DSPS PROCESSOR

Nice Colorful Night Image

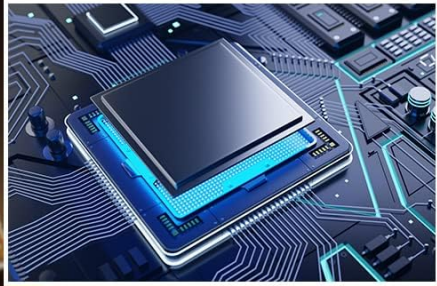


Figure 8: Enhanced night vision capabilities for improved low-light visibility.

## 6. MAINTENANCE

- **Cleaning:** Regularly clean camera lenses and the monitor screen with a soft, damp cloth. Avoid abrasive cleaners.
- **Waterproofing:** Periodically inspect camera housings and cable connections for any signs of wear or damage. Re-seal any compromised areas with appropriate silicone sealant to maintain IP69K water resistance.
- **Cable Inspection:** Check all wiring for fraying, pinches, or loose connections, especially after long trips or exposure to harsh weather.
- **Software Updates:** Check the eRapta official website for any available firmware updates to ensure optimal performance and access to new features.

## RUGGED AND DURABLE CAMERA



IP69K Waterproof



Low Temperature Resistance



High Temperature Resistance

Figure 9: Cameras are designed for durability in various weather conditions.

## 7. TROUBLESHOOTING

### 7.1 No Signal Displayed

- Check all power connections to the monitor and cameras.
- Ensure all video cables are securely connected and not damaged.
- Verify that the correct camera channel is selected on the monitor.

### 7.2 Upside-Down Menu After Reset

If the menu appears upside down after a system reset, follow these steps to correct the orientation:

1. Long-press the 'M' button on the monitor for 5 seconds to enter the settings page.
2. Press the 'OK' button repeatedly to navigate through the menu options until you reach the 'Rotation' setting.
3. Use the '-' button to select 'MODE 2' for the correct rotation.
4. Press the 'OK' button four times to save the setting and exit the menu.

Video 1: Guide to fixing an upside-down menu orientation after a system reset.

### 7.3 Image Quality Issues

- Clean camera lenses and monitor screen.
- Check for any physical damage to cameras or cables.
- Ensure proper lighting conditions for optimal image clarity.

## 8. SPECIFICATIONS

Monitor Screen Size	10.1 Inches
Display Technology	LED
Video Resolution	1080p HD
Camera Quantity	4 (2 Rear, 2 Side)
Camera Waterproof Rating	IP69K
Voltage	12-24 Volts DC

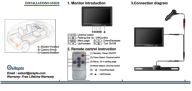





<b>Optical Sensor Technology</b>	CMOS
<b>Lens Type</b>	Fisheye
<b>Real Angle of View</b>	130 Degrees
<b>Connectivity</b>	Wired
<b>DVR Functionality</b>	Built-in, Loop Recording
<b>Max SD Card Support</b>	128GB

## 9. WARRANTY AND SUPPORT

eRapta products are designed for reliability and performance. For warranty information, technical support, or assistance with your product, please refer to the contact details provided with your purchase or visit the official eRapta website. Keep your purchase receipt as proof of purchase for warranty claims.

### Related Documents - AYX104

	<p><a href="#">eRapta AY7 Backup Camera System Installation Guide</a></p> <p>Comprehensive installation guide for the eRapta AY7 backup camera system, including monitor introduction, remote control instructions, connection diagrams, installation steps, troubleshooting, and warm tips.</p>
	<p><a href="#">eRapta HD License Plate Wired Camera System Installation Guide (T01)</a></p> <p>This installation guide provides detailed instructions for setting up the eRapta HD License Plate Wired Camera System (T01). It covers product specifications, safety precautions, wiring, troubleshooting, and warranty information.</p>
	<p><a href="#">eRapta ATYZX7 Solar Wireless Backup Camera System: Installation &amp; Operation Guide</a></p> <p>Comprehensive installation and operation guide for the eRapta ATYZX7 Solar Wireless Backup Camera System. Learn how to install and use the 7-inch monitor, solar-powered camera, and accessories for enhanced vehicle safety and parking assistance.</p>
	<p><a href="#">eRapta ATYX5 7-Inch Wireless Backup Camera System: Installation and Operation Guide</a></p> <p>This guide details the installation and operation of the eRapta ATYX5 7-inch magnetic solar wireless backup camera system. It covers setup, features, troubleshooting, and warranty information for vehicle safety.</p>

