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### Podofa 7-inch LCD Monitor Reversing Camera System (B09C2154JN)

# Podofa 7-inch LCD Monitor Reversing Camera System User Manual

Model: 7-inch LCD Monitor Reversing Camera System (B09C2154JN)

Brand: Podofa

## INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Podofa 7-inch LCD Monitor Reversing Camera System. This system is designed to enhance safety and convenience when reversing or parking various vehicles, including trucks, SUVs, vans, and motorhomes. Please read this manual thoroughly before using the product to ensure proper function and longevity.

# 18 IR LEDs Backup Camera



**Figure 1: Applicable Vehicle Models.** The system is suitable for a wide range of vehicles including trucks, school buses, fire trucks, vans, buses, and RVs.

## PRODUCT OVERVIEW AND PACKAGE CONTENTS

The Podofu Reversing Camera System includes a high-definition 7-inch LCD monitor and an IP69 waterproof camera with night vision capabilities. It supports dual camera input and is designed for simple installation with a 10-meter 4-pin extension cable.

### Key Features:

- **7-inch TFT LCD Monitor:** 800x480 resolution, NTSC/PAL system, 2 video inputs, adjustable display (up/down/left/right), DC 12V-24V power.

- **IP69 Waterproof Camera:** Metal housing, 420TV lines, 648x488 pixels (NTSC), 18 IR LEDs for night vision, 120° wide viewing angle.
- **Dual Channel Input:** Supports connection of up to two cameras with V1/V2 switching.
- **Adjustable Reverse Lines:** Customize width and height of parking guidelines.
- **Durable Cable:** 10-meter 4-pin extension cable for stable signal transmission.
- **Wide Application:** Compatible with RVs, cars, campers, trucks, and caravans (DC 12V-24V).

**Package Contents:**

## Product List



**Figure 2: Package Contents.** The image displays the 7-inch monitor, remote control, reversing camera, 10-meter cable, mounting bracket, power cable, small accessories, user manual, and a sticker.

- 1 x 7-inch Monitor

- 1 x Reversing Camera
- 1 x 10-meter Cable
- 1 x Remote Control
- 1 x Mounting Bracket
- 1 x Power Cable
- 1 x User Manual
- Accessories (screws, adhesive pad)

## SETUP AND INSTALLATION

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Follow these steps for proper installation of your reversing camera system. Ensure the vehicle's power is off before beginning installation.

### **1. Mount the Monitor:**

# Easy installation



**Figure 3: Monitor Installation Steps.** The image illustrates how to attach the monitor to its bracket and then secure the bracket to a flat surface, such as a dashboard, using an adhesive pad or screws.

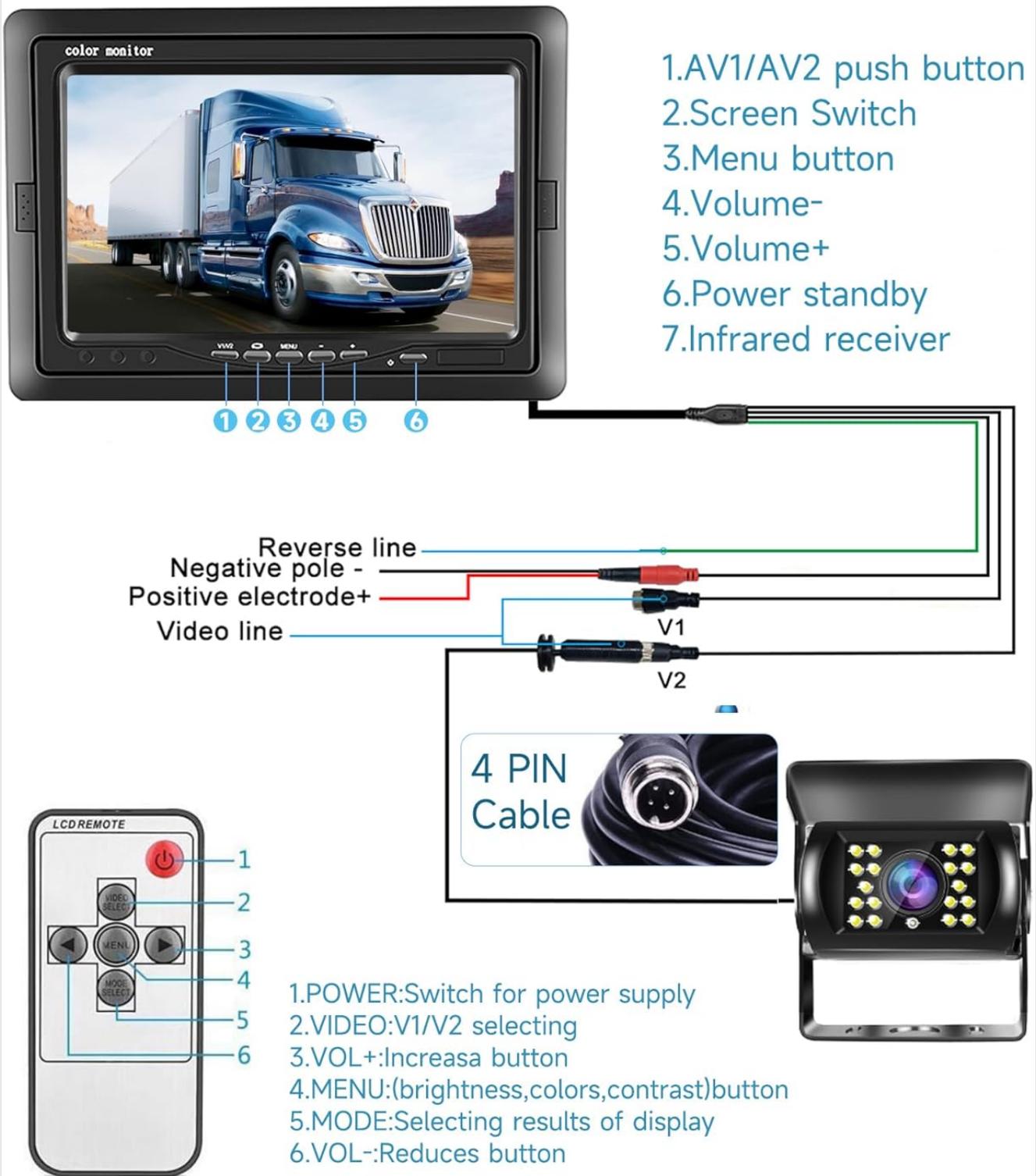
1. Attach the mounting bracket to the back of the 7-inch monitor.
2. Choose a suitable location on your dashboard or windshield that does not obstruct your view.
3. Secure the bracket using the provided adhesive pad or screws.
4. Adjust the monitor angle for optimal viewing.

## 2. Mount the Camera:

- Install the reversing camera at the rear of your vehicle, typically above the license plate or near the bumper.
- Ensure the camera has a clear, unobstructed view.
- The camera features a metal housing and an adjustable angle for optimal positioning.

### 3. Wiring Diagram:

## Product Details



**Figure 4: Wiring Connections.** This diagram illustrates how to connect the monitor to the camera using the 4-pin cable, and how to connect the power supply (DC 12V-24V) to the monitor and camera. It also shows the reverse line trigger connection.

1. Connect the 10-meter 4-pin extension cable to the camera.
2. Route the cable through the vehicle to the monitor's location, ensuring it is secured and away from moving parts or heat sources.
3. Connect the other end of the 4-pin cable to the monitor's V1 or V2 input.
4. Connect the monitor's power cable to a DC 12V-24V power source in your vehicle. The red wire is positive (+), and the black wire is negative (-).

5. For automatic activation when reversing, connect the reverse trigger wire (usually green or blue) from the monitor's harness to the vehicle's reverse light power wire.
6. If installing a second camera, connect it to the remaining video input (V1 or V2) on the monitor.

## OPERATING INSTRUCTIONS

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Once installed, operate your Podofu reversing camera system using the monitor buttons or the remote control.

### Monitor Controls:

- **Power Button:** Turns the monitor on/off.
- **V1/V2 Button:** Switches between video input channels (Camera 1 and Camera 2).
- **Menu Button:** Accesses the on-screen display (OSD) menu for settings.
- **+/- Buttons:** Navigate menu options and adjust values (e.g., brightness, contrast, color, volume).

### Remote Control Functions:

- **Power:** Switch for power supply.
- **VIDEO (V1/V2):** Selects video input.
- **VOL+ / VOL-:** Adjusts volume.
- **MENU:** Accesses display settings (brightness, colors, contrast).
- **MODE:** Selects display results.

### Display Settings:

# 720p HD LCD Screen



**Figure 5: Monitor Display Features.** This image highlights the clear display quality of the TFT LCD monitor, the ability to toggle reverse lines on/off, and the mirror image function for the camera view.

- **Brightness, Contrast, Color:** Adjust these settings via the MENU to optimize image quality.
- **Reverse Lines:** The system supports adjustable parking guidelines. Access the menu to adjust the width and height of these lines to match your vehicle and preference. You can also toggle them on or off.
- **Mirror Image:** The camera image can be mirrored if needed, which is useful for front camera applications or specific vehicle setups.
- **Screen Orientation:** The display can be adjusted up/down/left/right to suit mounting preferences.

## Night Vision and Waterproof Features:

# 18 IR LEDs Backup Camera



**IP68 Waterproof**



**Working temperature :  
20°C-70°C**



**Adjustable angle: 360°**

**Figure 6: Camera Features.** This image shows the camera's 18 IR LEDs providing clear vision in both daylight and low-light conditions, its IP68 waterproof rating, operational temperature range, and 360-degree adjustable mounting angle.

- The camera is equipped with 18 IR LEDs, providing clear vision even in complete darkness.
- With an IP69 waterproof rating, the camera is designed to withstand harsh weather conditions, including rain, snow, and dusty environments.

## MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your Podofu reversing camera system.

- **Cleaning the Camera Lens:** Periodically clean the camera lens with a soft, damp cloth to remove dirt, dust, or water spots that may obscure the view. Avoid abrasive cleaners.

- **Cleaning the Monitor Screen:** Use a soft, lint-free cloth to clean the monitor screen. For stubborn smudges, a screen cleaner designed for electronics can be used.
- **Cable Inspection:** Regularly check all cables for any signs of wear, damage, or loose connections. Secure any loose cables to prevent interference or disconnection.
- **Mounting Security:** Ensure the monitor and camera mounts remain secure. Tighten any screws if necessary.
- **Environmental Conditions:** While the camera is IP69 waterproof, extreme temperatures outside the specified operating range (-20°C to 70°C for camera, -10°C to 40°C for monitor) should be avoided if possible.

## TROUBLESHOOTING

If you encounter issues with your Podofu reversing camera system, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No image on monitor	<ul style="list-style-type: none"> <li>Monitor not powered on.</li> <li>Loose power connection.</li> <li>Loose video cable connection.</li> <li>Incorrect video input selected.</li> <li>Camera malfunction.</li> </ul>	<ul style="list-style-type: none"> <li>Press the power button on the monitor or remote.</li> <li>Check power cable connections to the monitor and vehicle power source.</li> <li>Ensure the 4-pin cable is securely connected to both the camera and the monitor.</li> <li>Press the V1/V2 button to cycle through video inputs.</li> <li>Test with another camera if available, or contact support.</li> </ul>
Flickering or distorted image	<ul style="list-style-type: none"> <li>Loose video cable connection.</li> <li>Power interference.</li> <li>Damaged cable.</li> </ul>	<ul style="list-style-type: none"> <li>Check all video cable connections.</li> <li>Ensure power connections are stable and free from interference.</li> <li>Inspect the 4-pin cable for damage. Replace if necessary.</li> </ul>
Monitor does not turn on automatically when reversing	<ul style="list-style-type: none"> <li>Reverse trigger wire not connected or incorrectly connected.</li> </ul>	<ul style="list-style-type: none"> <li>Verify the reverse trigger wire is correctly connected to the vehicle's reverse light power.</li> </ul>
Night vision not working	<ul style="list-style-type: none"> <li>IR LEDs obstructed or damaged.</li> <li>Insufficient power to camera.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the camera lens and ensure IR LEDs are not covered.</li> <li>Check camera power connection.</li> </ul>

## SPECIFICATIONS

Component	Feature	Value
Monitor	Screen Size	7 inches
	Resolution	800*480
	Housing Material	ABS
	TV System	NTSC/PAL
	Video Inputs	2 (V1/V2)

Component	Feature	Value
	Power Supply	DC 12V - 24V
	Power Consumption	5W
	Operating Temperature	-10°C ~ +40°C
	Storage Temperature	-25°C ~ +80°C
	Languages	English, Russian, Chinese, Japanese, Korean
<b>Camera</b>	Housing Material	Metal
	Image Sensor	CMOS
	Waterproof Rating	IP69
	Horizontal Resolution	420TV Lines
	Effective Pixels (NTSC)	648×488 Pixels
	Power Supply	DC 12V - 24V
	Operating Temperature	-20°C ~ +70°C (RH95% MAX)
	Storage Temperature	-40°C ~ +85°C (RH95% MAX)
<b>Cable</b>	Length	10 meters
	Connector Type	4-pin (proprietary)

## WARRANTY AND SUPPORT

Podofu offers a comprehensive warranty and dedicated customer support for your product.

- **Warranty:** This product comes with a 2-year manufacturer's warranty. Please retain your proof of purchase for warranty claims.
- **Technical Support:** Podofu provides lifetime technical support for this product. If you encounter any issues or have questions not covered in this manual, please contact our professional customer service team.
- **Contact Information:** Refer to the contact details provided on the Podofu official website or your purchase documentation for support.