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› PARKVISION PJ-116S Reversing Camera User Manual

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PARKVISION PJ-116S Reversing Camera User Manual

Model: PJ-116S

1. INTRODUCTION

The PARKVISION PJ-116S Reversing Camera is an advanced automotive safety device designed to enhance your driving and parking experience. Featuring a high-definition color CMOS sensor and IP68 waterproof rating, this camera provides clear, reliable images day and night. Its compact design and adjustable bracket ensure easy installation without obstructing your license plate. This manual will guide you through the setup, operation, and maintenance of your new reversing camera.



Image 1.1: The PARKVISION PJ-116S Reversing Camera with its adjustable mounting bracket.

2. PRODUCT COMPONENTS

Before installation, please ensure all components are present in the package:

- 1 x PJ-116S Camera (1M/3.2Ft cable)
- 1 x DC Power Cable (2M/6.4Ft)
- 1 x DC Power Cable (6M/19.8Ft)
- 1 x User Manual
- Accessories (screws, adhesive pad)

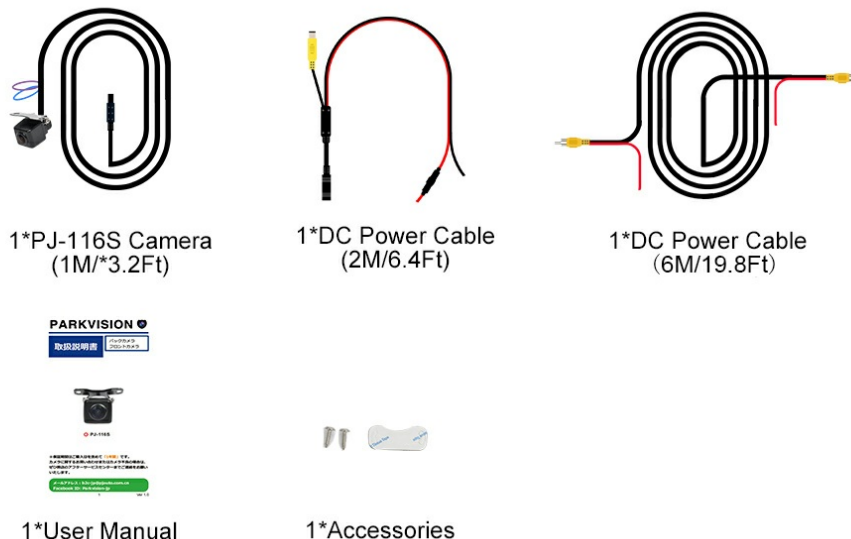


Image 2.1: Contents of the PJ-116S camera package, including the camera unit, power cables, user manual, and mounting accessories.

3. SPECIFICATIONS

Feature	Specification
Brand	PARKVISION
Compatible Devices	Car Console
Video Capture Resolution	720p
Voltage	12 Volts
Optical Sensor Technology	CMOS
Lens Type	Standard (non-fisheye)
Real Angle of View	Horizontal 110°, Vertical 80°
Installation Type	Surface Mount
Waterproof Rating	IP68
Operating Temperature	-20°C to 65°C
Product Dimensions	2.2 x 2.2 x 2.2 cm (camera body)

4. SETUP AND INSTALLATION

4.1 Mounting the Camera

The PJ-116S camera features an ultra-compact size and an adjustable stainless steel bracket, allowing for flexible mounting options. It can be installed at the rear of your vehicle as a backup camera or at the front to avoid obstacles. Ensure the camera

does not interfere with your license plate after installation.



Image 4.1: The compact mini size of the PJ-116S camera, demonstrating it does not cover license plate information.

FUNCTIONS SWITCHING

1.Cut off the Purple loop convert to turn OFF parking line



2.Cut off the Blue loop convert to normal image



Image 4.2: Examples of installing the PJ-116S camera at the front or rear of a car to assist with obstacle avoidance.

4.2 Wiring Diagram

The camera is designed for DC 12V vehicles. Connect the power cable and RCA video cable as shown in the diagram below. The RCA video cable includes two trigger wires for compatibility with double DIN head units or monitors requiring a backup trigger signal input.

FIT FOR MOSTLY DC 12V VEHICLES

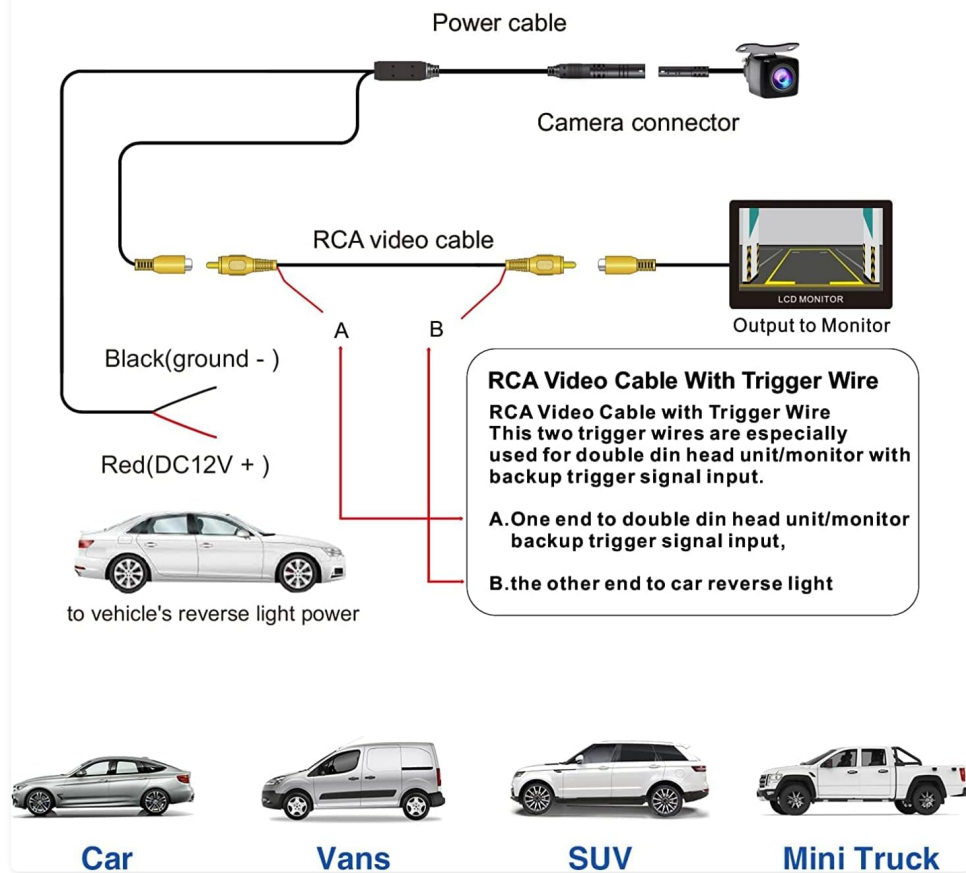


Image 4.3: Detailed wiring diagram showing connections for the power cable, camera connector, RCA video cable, and trigger wires to the vehicle's reverse light power and monitor.

Wiring Notes:

- The black wire is for ground (-).
- The red wire is for DC12V power (+).
- One end of the RCA video cable's trigger wire (A) connects to the double DIN head unit/monitor's backup trigger signal input.
- The other end of the RCA video cable's trigger wire (B) connects to the car's reverse light power.



Image 4.4: The camera is compatible with monitors but not typically with driving recorders or dash cams.

5. OPERATING INSTRUCTIONS

5.1 Image and Parking Line Switching

The PJ-116S camera features control cables that allow you to switch between normal and mirror images, and to turn the parking lines on or off. To change settings, cut the corresponding colored wire. After cutting, turn off the power and restart the camera for the changes to take effect.

- **Blue wire:** Controls normal image and mirror image switching. Cutting this wire allows the camera to be used as either a front camera (normal image) or a rear camera (mirror image).
- **Purple wire:** Controls the parking line on/off function. Cutting this wire will disable the parking lines.

Install PJ-116 Backup Camera In Front Of Your Car to Avoid Obstacle Easily

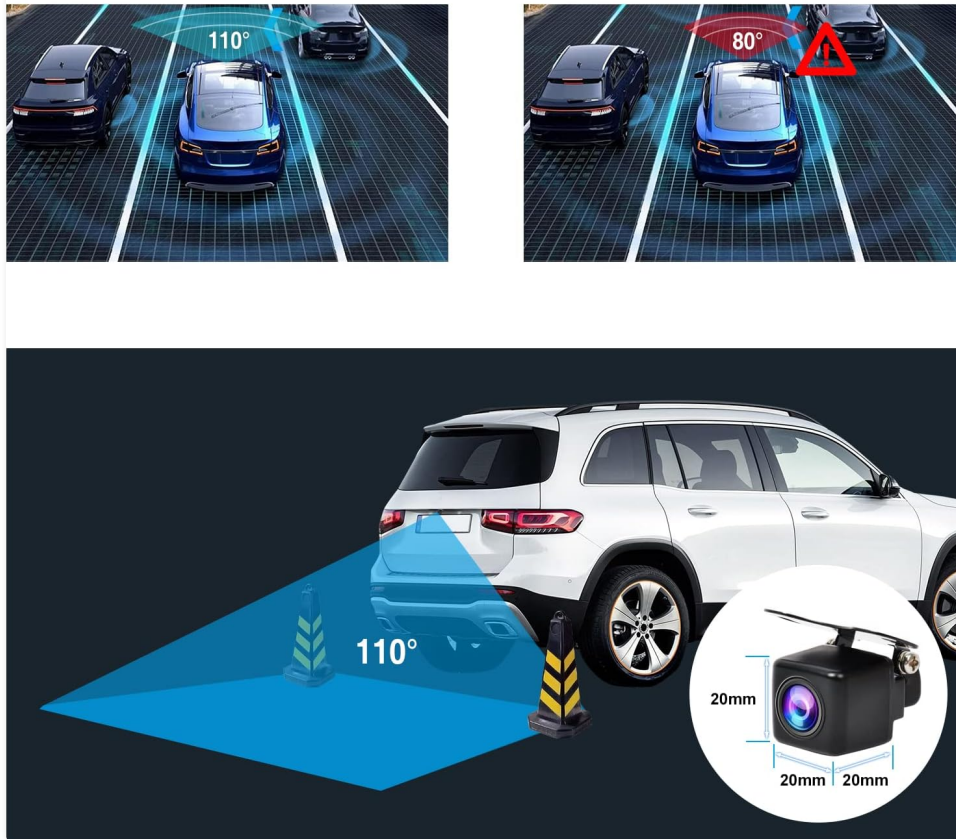


Image 5.1: Illustration of cutting the purple wire to turn off parking lines and cutting the blue wire to switch to a normal image (for front camera use).

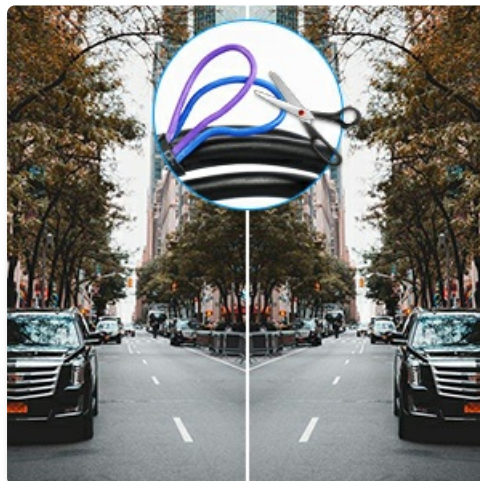


Image 5.2: Visual representation of parking lines being ON versus OFF.

5.2 Image Quality and Viewing Angle

The PJ-116S camera provides a clear, natural image without the distortion often associated with fisheye lenses. It offers a standard viewing angle suitable for various driving scenarios.

IMAGE EFFECT

The image effect of PJ-116S is clearer and more colorful than the general products of the same price.



Daytime effect





Night effect

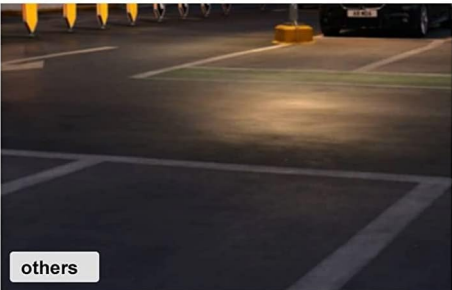
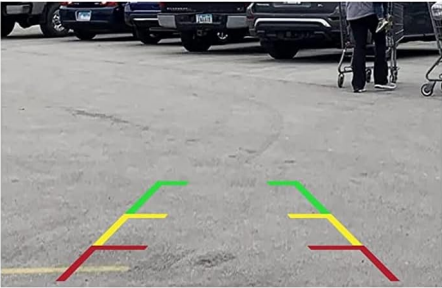


Image 5.3: Comparison of image clarity during daytime and night, highlighting the camera's good night vision effect.

ANGLE ADJUSTMENT FREELY



Ponit 1



Ponit 2



Image 5.4: The camera allows for flexible adjustment of the parking line angle to suit different vehicle types and driver preferences.

6. MAINTENANCE

The PARKVISION PJ-116S camera is designed for durability and requires minimal maintenance. Its IP68 waterproof and dustproof rating ensures reliable performance in various weather conditions.

- **Cleaning:** Periodically clean the camera lens with a soft, damp cloth to ensure clear visibility. Avoid abrasive cleaners.
- **Environmental Resistance:** The camera is built to withstand extreme temperatures from -20°C to 65°C, and is fully waterproof, preventing fog or mist from getting inside.



Image 6.1: The camera's IP68 rating and ability to operate in temperatures ranging from -20°C to 65°C, demonstrating its robustness against water, dust, snow, and heat.

7. TROUBLESHOOTING

If you encounter issues with your PARKVISION PJ-116S camera, please refer to the following common problems and solutions:

- **No Image Display:**
 - Check all power connections to ensure they are secure and receiving 12V DC.
 - Verify the RCA video cable is properly connected to both the camera and the monitor/head unit.
 - Ensure the monitor/head unit is set to the correct video input channel.
- **Flickering or Distorted Image:**
 - Check for loose cable connections.
 - Ensure proper grounding of the camera and monitor.

- Test the camera with a different power source or monitor if possible to isolate the issue.

- **Parking Lines Not Appearing/Disappearing:**

- Confirm the purple control wire has been cut or left intact as desired.
- Cycle the power to the camera after making changes to the control wires.

- **Poor Night Vision:**

- Ensure the camera lens is clean and free from dirt or obstructions.
- Verify the vehicle's reverse lights are functioning correctly, as they provide illumination for the camera.

If the problem persists after trying these steps, please contact PARKVISION customer support.

8. WARRANTY AND SUPPORT

PARKVISION products are manufactured under strict quality control standards. For warranty information, technical support, or service inquiries, please refer to the contact details provided on the product packaging or the official PARKVISION website. Please have your product model (PJ-116S) and purchase information ready when contacting support.

Contact Information:

- Email: b2c@pjauto.com.cn
- Official Website: Please check your product packaging or search for 'PARKVISION Official Website' online.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question