

[Manuals.plus](#) /

› [PARKVISION](#) /

› PARKVISION PAL-142 Rotatable No-Drill Multi-Purpose Vehicle Camera User Manual

PARKVISION PAL-142

PARKVISION PAL-142 Rotatable No-Drill Multi-Purpose Vehicle Camera User Manual

INTRODUCTION

Thank you for choosing the PARKVISION PAL-142 Multi-Purpose Vehicle Camera. This manual provides detailed instructions for the installation, operation, and maintenance of your new camera. Please read this manual thoroughly before using the product to ensure proper function and safety.

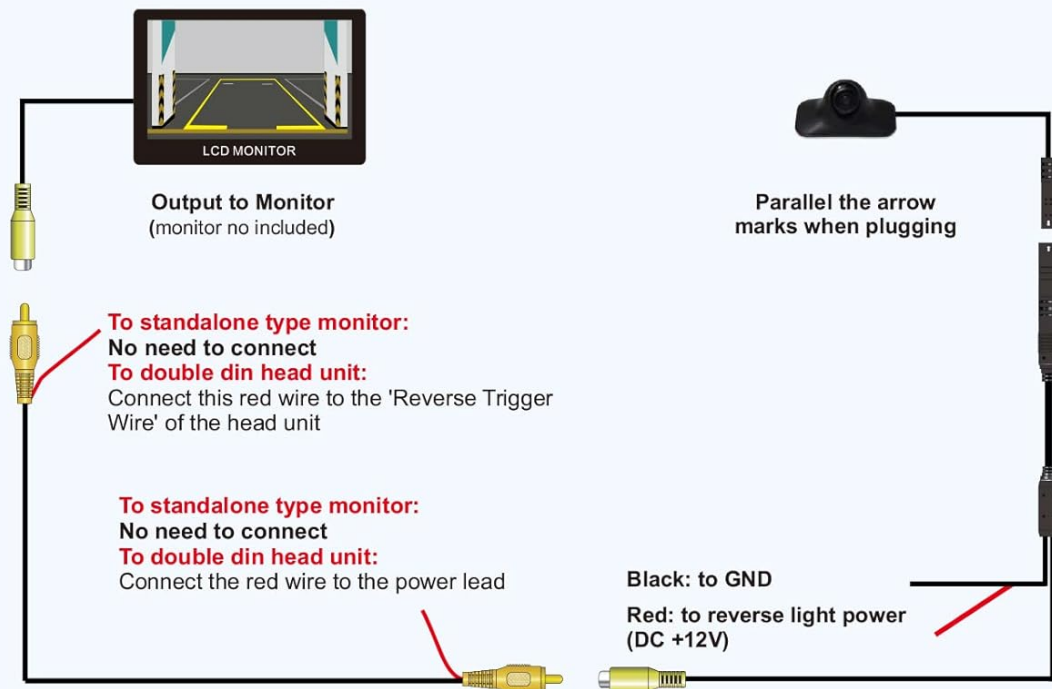
PRODUCT OVERVIEW

Key Features

- **Rotatable Lens & Adjustable View Angle:** Manually adjust the lens for optimal viewing angles (up, down, left, right) after installation, ideal for precise positioning on various surfaces.
- **Versatile 3-in-1 Functionality:** Use as a rear-view camera for parking, a side-view camera to monitor blind spots, or a front-view camera for enhanced visibility in tight spaces. Suitable for cars, SUVs, vans, and utility vehicles.
- **Easy No-Drill Installation:** Mounts quickly with high-adhesion double-sided tape on any smooth or slightly curved surface. Compact, lightweight, and durable rubber design requires no tools or complex wiring.
- **Customizable Image Settings:** Features vertical image inversion (for upside-down mounting) and switchable mirror/normal image modes.
- **Compatibility:** Designed for PAL/CVBS (RCA) video systems. Please verify your display's compatibility before purchase.
- **Durable Design:** IP68 waterproof rating, suitable for various weather conditions (-30°C to 75°C).

Package Contents

Please check the package for the following items:



Package Included



Box



Power Cable (1m / 39in)



Rubber Tube (3m / 118in)



User Manual



Video Extension Cable (6m / 236in)



S142 Camera (3m / 118in)

Image: Diagram showing the contents of the package and the wiring connections. The package includes the S142 camera, a power cable, a video extension cable, a rubber tube, a user manual, and a box.

- PARKVISION S142 Camera (with 3m/118in cable)
- Power Cable (1m/39in)
- Video Extension Cable (6m/236in)
- Rubber Tube (3m/118in)
- User Manual

SAFETY INFORMATION

- Ensure all connections are secure and properly insulated to prevent short circuits.
- Do not obstruct the driver's view or interfere with vehicle controls during installation.
- Always test the camera functionality in a safe environment before relying on it for driving or parking.
- Disconnect the vehicle's battery before performing any electrical work to prevent injury or damage.

- This camera is an aid and should not replace careful driving and direct observation.

SETUP AND INSTALLATION

The PARKVISION PAL-142 camera is designed for easy, no-drill installation. Follow these steps for optimal setup.

1. Choose Installation Location

Select a suitable location on your vehicle for the camera. Common locations include:

- **Rear:** Above the license plate, on the bumper, or tailgate.
- **Sides:** Under side mirrors or on fenders.
- **Front:** On the front bumper or grille.

Ensure the chosen spot provides a clear view and allows for cable routing.

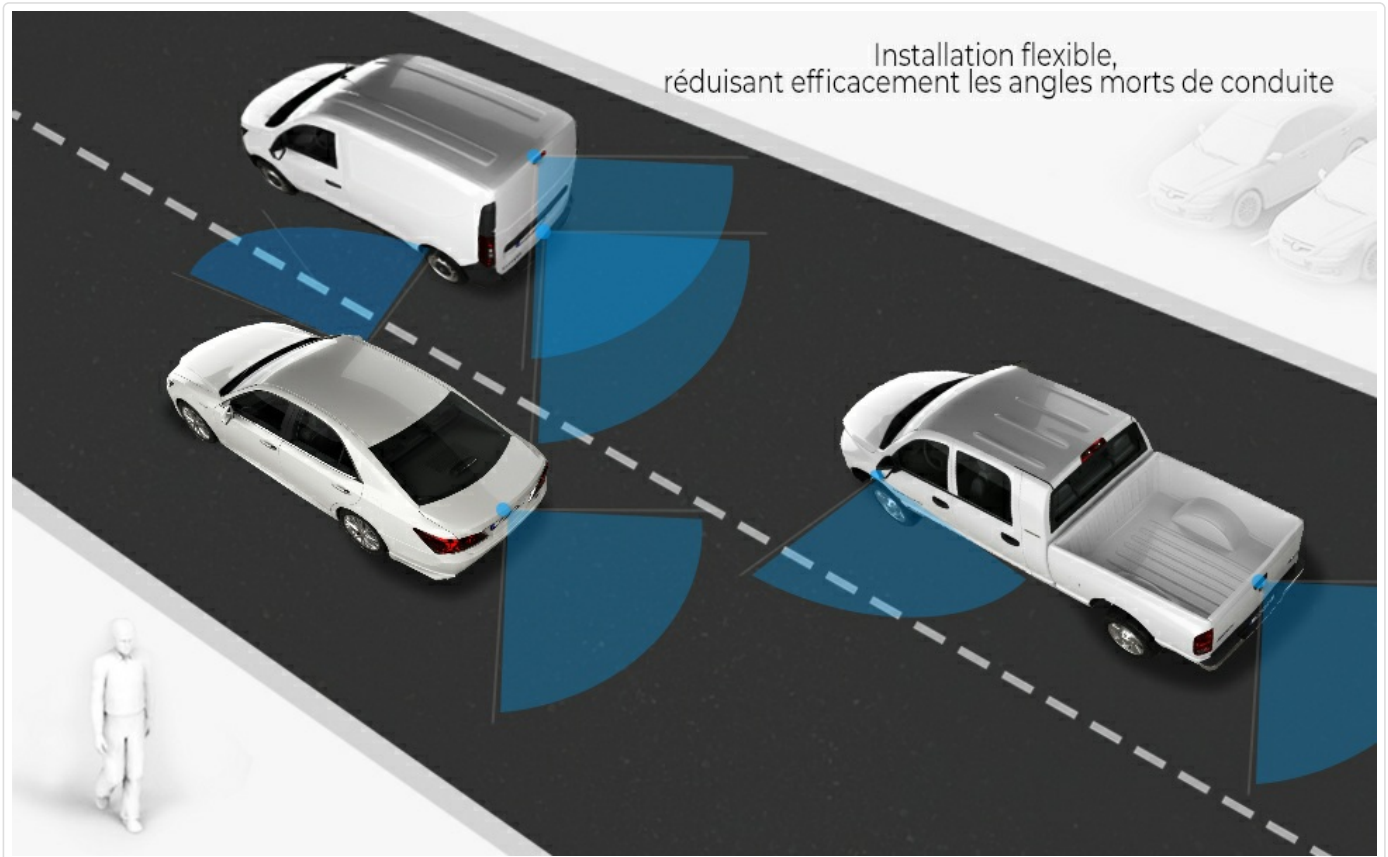


Image: An overhead view of a car illustrating various camera installation points (left side, right side, rear) to maximize visibility and reduce blind spots.

2. Mount the Camera

1. Clean the chosen surface thoroughly with alcohol to ensure strong adhesion.
2. Peel off the protective film from the pre-applied 3M adhesive on the camera base.
3. Firmly press the camera onto the desired location for at least 30 seconds.
4. Allow the adhesive to cure for a few hours before driving, if possible, for maximum bond strength.

01

Punch-free Paste Design



02

Easy Installation

03

Confirm Image Effect



Image: A visual guide showing the three main steps of installation: 1. The camera with its adhesive backing, 2. The camera mounted on a side mirror, and 3. The resulting view on an in-car display.

3. Wiring Connections

Refer to the wiring diagram provided in the package contents image.

1. **Video Connection:** Connect the yellow RCA connector from the camera's video extension cable to the video input (usually yellow RCA) on your LCD monitor or head unit.
2. **Power Connection:**
 - **Black Wire:** Connect to vehicle ground (GND).
 - **Red Wire:** Connect to a 12V DC power source. For a rear camera, connect to the reverse light power (DC +12V) so it activates when reversing. For a continuous front or side camera, connect to an accessory power source that turns on with the ignition.
3. **Reverse Trigger Wire (for double DIN head units):** If your head unit has a "Reverse Trigger Wire," connect the red wire from the power lead to this trigger wire. For standalone monitors, this connection is not needed.

Important: Ensure your display supports PAL/CVBS video format with an RCA interface.



Image: A diagram showing the camera connecting to a monitor, highlighting the CVBS (PAL) signal mode compatibility. An example car display menu shows "CVBS-PAL" selected.

OPERATING INSTRUCTIONS

Adjusting the Camera Angle

After installation, you can manually rotate the camera lens to achieve the desired viewing angle. The lens allows for up to 90° vertical adjustment and 45° left/right adjustment.

ANGLE ADJUSTMENT FREELY

Up and down 90° adjustment possible
45° left and right adjustment possible



Image: Illustrations demonstrating the camera's ability to adjust its viewing angle freely, with arrows indicating vertical and horizontal rotation capabilities.

Using as a Multi-Purpose Camera

- **Rear Camera:** Provides a clear view behind your vehicle for safe reversing and parking.
- **Side Camera:** Helps monitor blind spots when changing lanes or during parallel parking.
- **Front Camera:** Offers increased visibility in narrow streets, parking garages, or when approaching obstacles.

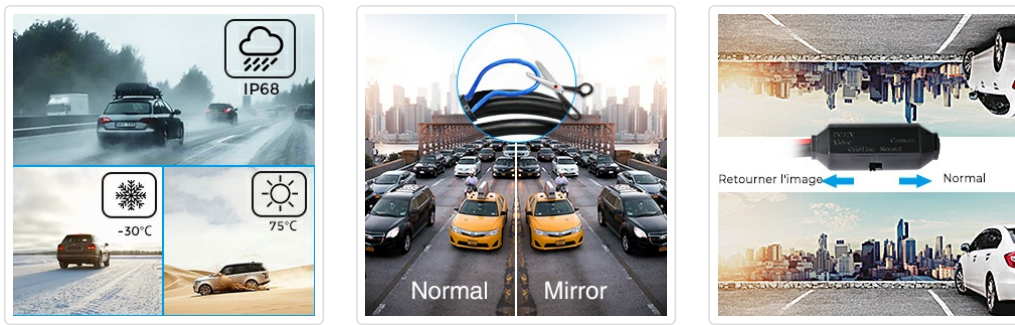


Image: Examples of camera placement for side, rear, and front views on a vehicle.

IMAGE SETTINGS

The camera offers customizable image settings to suit your preferences and installation orientation.

Mirror/Normal Image Switching

By default, the camera outputs a mirror image, suitable for rear-view use. To switch to a normal (non-mirrored) image, locate the small blue wire loop on the camera cable and cut it. This is typically done for front-view camera applications.



Image: A visual representation of cutting the blue wire to toggle between normal and mirror image modes.

Up-Down Inverted Image

If the camera is mounted upside down, you can invert the image vertically. Locate the small button on the cable module (often labeled "Flip Image" or similar) and press it to toggle the image orientation. After making this adjustment, disconnect power for 3 seconds and then reconnect for the change to take effect.



Image: A close-up of the cable module showing a button that allows for flipping the image orientation (up-down inversion).

Normal/Mirror Image Switchable



Selectable Up-down Inverted Image



Image: A comprehensive diagram illustrating both the mirror/normal image switching via wire cutting and the up-down image inversion via a button, with before and after examples.

MAINTENANCE

- **Cleaning:** Gently wipe the camera lens with a soft, damp cloth to remove dirt or water spots. Avoid using abrasive cleaners or solvents.
- **Inspection:** Periodically check the camera's mounting for security and the cables for any signs of wear or damage.
- **Weather Resistance:** The camera is IP68 waterproof, designed to withstand various weather conditions. However, avoid direct high-pressure water jets on the camera.



Image: Icons indicating IP68 waterproof rating and resistance to extreme temperatures (-30°C to 75°C), demonstrating the camera's durability.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No image on screen	• Loose video cable connection. • No power to the camera. • Incorrect video input selected on monitor. • Monitor/head unit not compatible with PAL/CVBS.	• Check all RCA video connections. • Verify power connections (red to +12V, black to GND). • Select the correct AV input on your display. • Confirm your display supports PAL/CVBS (RCA).
Image is upside down	Camera mounted inverted.	Use the up-down image inversion button on the cable module. Power cycle the camera after adjustment.
Image is reversed (not mirror) for rear view	Mirror image function is disabled.	If the blue wire was cut, it needs to be reconnected (or replaced if permanently cut) to enable mirror image.
Image is mirrored for front view	Mirror image function is enabled.	Cut the blue wire loop on the camera cable to switch to normal image.
Poor image quality	• Dirty lens. • Poor electrical connection. • Using non-supplied cables.	• Clean the camera lens. • Check all connections for tightness and corrosion. • Use only the cables provided with the camera to avoid signal issues.

SPECIFICATIONS

Brand	PARKVISION
Model Number	PAL-142

Product Dimensions	5L x 3W x 3H centimeters (1.97L x 1.18W x 1.18H inches)
Compatible Devices	PAL TV format, RCA video interface
Installation Type	Surface Mount (Adhesive)
Voltage	12 Volts DC
Optical Sensor Technology	CCD
Lens Type	Wide Angle
Actual View Angle	90 degrees (Horizontal)
Connector Type	RCA
Video Capture Format	PAL
Screen Capture Resolution	720x576 pixels
Waterproof Rating	IP68
Operating Temperature	-30°C to 75°C (approx.)
UPC	768253676297

WARRANTY AND SUPPORT

Warranty Information

This PARKVISION PAL-142 camera comes with a 1-year limited warranty from the date of purchase. This warranty covers manufacturing defects. Please retain your proof of purchase for warranty claims.

The warranty does not cover damage caused by improper installation, misuse, accidents, unauthorized repairs, or normal wear and tear.

Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact PARKVISION customer support through the seller's platform or visit the official PARKVISION website.

When contacting support, please provide your product model (PAL-142) and a detailed description of the issue.

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