



PLCM34WIR

Wireless Back Up Night Vision Camera And Monitor System

INSTALLATION AND OPERATION MANUAL

BEFORE using the Vehicle Back Up Camera, please read the following safety information. ALWAYS use the Vehicle Back Up Camera as outlined here.

Warning

- A failure to read and follow these warnings and instructions may result in a serious accident, including damaged property or a serious injury, including loss of life.
- The Vehicle Back-Up Camera is designed as an aid to the driver in detecting large stationary objects to help avoid damaging the vehicle. However, you, the driver, must use it safely and properly.

• Never back up while looking only at the screen. You should always check behind and around the vehicle when backing up just as you would if the vehicle did not have the Vehicle Back-Up Camera. Always make sure your intended path is clear. Always back up slowly.

• Never depend on the Vehicle Back-Up Camera entirely when backing up. The image on the screen is different from actual conditions. Objects viewed in the rear view monitor differ from actual distance because a wide-angle lens is used. Objects in the rear view monitor will appear visually opposite than when viewed in the rear view and outside mirrors. Use the inside mirror or glance over your shoulder to properly judge distances to other objects.

• The Vehicle Back-Up Camera's "night vision" feature is only an aid to a driver but is limited. Always use your own eyes to confirm the vehicle's surroundings, as the displayed image may be faint or dark, distorted, or not entirely visible. Always check behind and all around the vehicle visually and with mirrors before proceeding.

• The area displayed by the Vehicle Back-Up Camera is limited. Vehicle Back-Up Camera does not display objects that are close to or below the bumper, underneath the vehicle, or objects out of the camera's field of view. The area displayed on the screen may vary according to vehicle orientation or road conditions.

• The Vehicle Back-Up Camera is not intended for use during longer backing maneuvers or backing into potential crossing traffic or pedestrians. Crossing traffic or pedestrians may be approaching outside of the camera's field of view.

• Be sure to check the camera's position and mounting angle before each use.

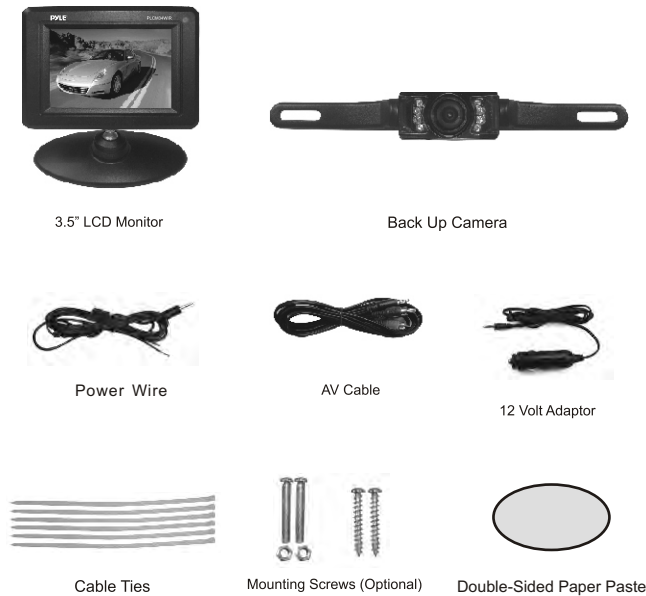
• Make sure the trunk, hatch, or backdoor is completely and securely closed when backing up.

• When washing the vehicle with high pressure water, be sure not to spray it around the camera. Otherwise, water may enter the camera unit causing water condensation on the lens, a malfunction, fire or an electric shock.

• Do not strike the camera. It is a precision instrument. Otherwise, it may malfunction or cause damage resulting in a fire or an electric shock.

• This product will only provide images of items that are within the field of view of the camera. Thus, it is imperative that the camera should be kept clean and unobstructed, and should properly mounted so that its field of view includes the entire area behind your vehicle.

COMPONENTS



INSTALLATION INSTRUCTION

These installation instructions do not apply to all types of vehicles. They are meant only as a general guide due to the large number of vehicle makes and models. Consult your local motor vehicle laws on the use of this product to be sure it is permitted.

WARNING:

*Through installation of the Vehicle Back-Up Camera you should be sure not to degrade the safety of any system or device on your vehicle.

* Improper installation and wiring of the Vehicle Back-Up Camera system may damage the vehicle's electrical system, including vital vehicle computer and operating systems. That could lead to an accident or fire, causing property damage and /or serious personal injury. It is highly recommended to seek professional installation advice from a qualified auto electrician or ,in the alternative, to have the installation performed by a qualified auto electrician.

MONITOR INSTALLATION

NOTICE: Please ensure that monitor is secured and mounted where it would NOT obstruct any OEM vehicle safety features. In an event of an accident, manufacturer is not responsible for bodily injury caused by the monitor being a projectile.

Select location for mounting the monitor in desired location. Ensure monitor location will not obstruct your vision while driving.

A. DASHBOARD MOUNTING

- Screw and secure the mount stand to the back of the monitor.
- Clean dashboard surface where monitor will be mounted.
- Remove adhesive protector from underneath of monitor mounting stand.
- Place and secure monitor mounting stand onto dashboard using adhesive from tape from bottom of stand.
- Adjust and tilt mounting to have a better viewing angle.

B. VENT MOUNTING

- Slide and lock vent clip to back of monitor as shown.
- Adjust to desired view angle by rotating center ring; rotate clockwise to unfasten.

CAUTION: These mounting options are illustrations only, and may not each apply to every type of vehicle. For vehicle specific questions, contact your vehicle's manufacturer to be sure that the installation and mounting location you choose will not degrade the safety of any system or device on your vehicle.

HOW TO POWER THE MONITOR

Select and connect monitor power source.

a.BASIC INSTALLATION: Power up monitor using 12V adapter provided

- 1.Plug 12V adapter to vehicle cigarette lighter socket.
- 2.Connect adapter to monitor power input.
- 3.Press monitor's "ON/OFF" button

b.ADVANCE INSTALLATION: Hardwire monitor to vehicle power source

- 1.REFER to vehicle Owner's Manual before attempting monitor installation to avoid corrupting the computer system or other vital operating systems in the vehicle. Before using the hardwire kit, it is highly recommended seeking assistance or professional installation from an automotive electrician.

WARNING: Manufacturer assumes no liability for damage caused to vehicle due improper installation or use.

- 2.Use the monitor's Wiring Harness (supplied) for this installation
- 3.Locate a suitable route for the Wiring Harness from the selected monitor mounting location to the vehicle fuse box.
- 4.Disconnect the vehicle's battery.
- 5.Identify the 12V+/ACCESSORY terminal in the vehicle's fuse box. This terminal only provides power when the vehicle's ignition is turned to the ACCESSORY position.
- 6.Connect Wiring Harness' red wire to this terminal.
- 7.Connect Wiring Harness' black wire to common ground (earth).
- 8.OPTIONAL: Extend and connect Wiring Harness' blue wire to positive wiring of the reverse light. This will serve as an interrupt and will power up the monitor when the car is put in reverse .

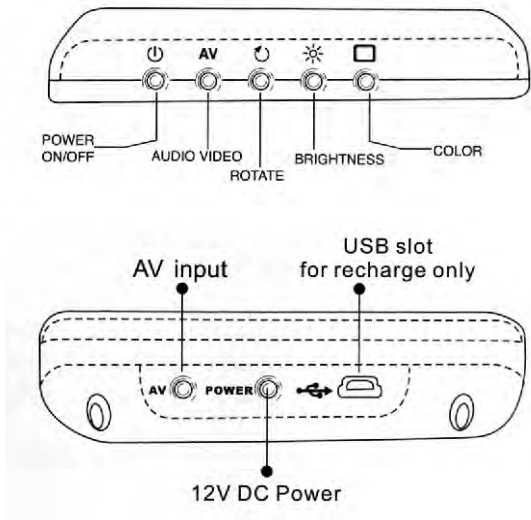
At this point, you can check if you properly connected the wires by:

- Reconnecting the battery.
- Turn vehicle Ignition to the "Accessories" position.
- Connect Monitor Wiring Harness to the Monitor.
- Press Monitor "On/Off" button and wait for monitor to turn on.

If the camera is not yet installed, all you will see is noise or static.
Disconnect vehicle battery before proceeding with installation

- 9.Identify the 12V+ wire for the vehicle's reverse light(s). This wire runs from a switch in the vehicle's transmission to the vehicle's reverse light(s).
- 10.Attach blue wire from Wiring Harness to the 12V+ reverse light wires using the supplied Scotch-Lok (see SCOTCH-LOK USAGE)
- 11.Monitor will automatically turn ON when vehicle transmission is placed in reversed, and turn OFF when transmission is not in reverse.

MONITOR OPERATION INSTRUCTION



POWER ON /OFF

1. The POWER ON /OFF button turns the LCD Monitor On or Off.
2. When the monitor was turned on , it automatically connected to the Reversing Camera.

A V

Press AV button ,the monitor will show AV images

Rotate

Control the rotation of the image.

Brightness

Control the brightness of the Monitor.

Color

Control the color of the monitor .

USB Slot

Recharging only for items that can be recharged via USB such as mobile phone、MP3、etc...

12V Power Input

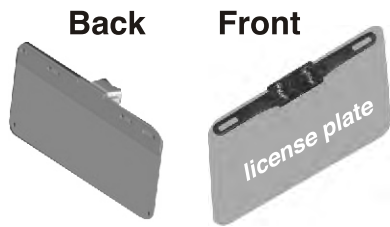
Supply the power for the monitor.

AV Input Jack

Connect the monitor with AV sources.

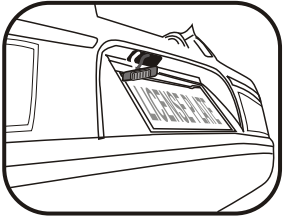
CAMERA INSTALLATION

Install Vehicle Backup Camera in the top mounting screw of your vehicle's rear license plate to achieve maximum viewing angle.



- 1)Unmount license plate from rear of vehicle.
- 2)Locate reverse tail lights and select a wiring route the camera will use for its power source
- 3)Inspect and determine route of camera wiring to reverse lights.
- 4)Insert camera wires through grommet (supplied). The grommet protects the wire from the metal edge.
- 5)Check for openings or holes where license plate is mounted to insert camera wires. If no opening is available, drill a small hole (6.5mm diameter) and insert wires see [Figure 1]. Select a location close to the camera's power cables.

[Figure 1]

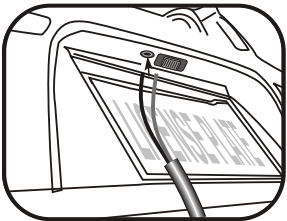


Note: The Vehicle Backup Camera can be installed without drilling a hole by using a pre- existing hole on the vehicle to route the wires to the reverse tail lights.

CAUTION: Take extra precaution necessary to avoid vehicle damage. Before drilling, inspect behind the drilling location to ensure there are no vehicle wirings or components.

- 6) Insert wires into selected/drilled opening remove the bulbs as a precaution.[Figure 2]

[Figure 2]

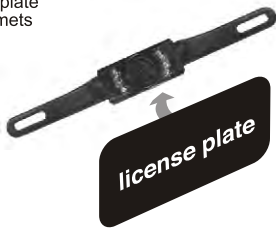


- 7)Route wires to selected reverse tail light. Ensure wires are not obstructed or tangled.
- 8)Remove light socket from its reverse light housing.

CAUTION: It is highly recommended to remove the bulbs as a precation.

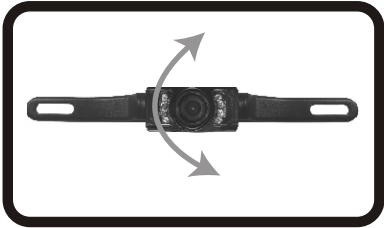
- 9) Connect camera wires
- 10) Connect bulb back into light socket.
- 11) Reinstall light socket into reverse light housing.
- 12) Slide license plate between camera & mounting. [Figure 3]
- 13) Align camera mount to license plate holes.

[Figure 3]
License plate
Grommets



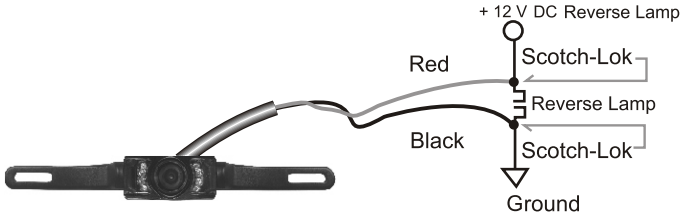
- 14) Once camera is secured, adjust camera angle to desired point of view. [Figure 4]

[Figure 4]



Caution: Double check the camera angle from time to time to make sure that it is always focused and adjusted to the desired point of view.

SCHEMA: CAMERA WIRING



CAUTION: Before connecting camera wires, use a Volt Meter or a Multi-Meter to determine positive and the negative wires on the vehicle's reverse light wires.

- a.**Determine positive and negative wires. Most vehicles will have two color wires, BLACK for negative and RED for positive.
- b.**Disconnect vehicle battery before proceeding to the next step as a precaution
- c.**Using the Scotch-Lok Connectors, connect camera's RED wire to reverse light's positive wire. If needed, use pliers to squeeze Scotch-Lok and ensure a good connection.
- d.**Connect camera's BLACK wire to reverse light's negative wire. Secure and link wires using the Scotch-Lok Connectors.
- e.**Secure wires with cable ties or electrical tape.

At this point, you can check if you properly connected the wires by:

- Reconnecting the battery.
- Turn the ignition to the "Accessories" position.
- Engage the Emergency or Hand Brake.
- Put the vehicle in reverse.
- Press "On/Off" button of the Monitor.

If the camera and the monitor wirings are hooked up correctly, the monitor should turn on and should display image of rear view of the vehicle.

****Disconnect vehicle battery before proceeding with installation**.**

OPERATIONS

SAFE OPERATING POINTS

- If you replace the tires, the area displayed on the monitor may change and you may need to adjust the camera.
- There is a plastic cover over the camera. Do not scratch the cover when cleaning dirt or snow from the cover.
- The camera has a water resistant construction. Do not detach, disassemble or modify it. This may cause incorrect operation. Camera is water resistant but not waterproof.
- Do not submerge camera in water, which can cause internal damage to the camera.
- If the temperature changes rapidly, such as when hot water is poured on the vehicle in cold weather, the system may not operate normally.
- When the temperature is extremely high or low, the screen may not clearly display objects.
- When strong light directly enters the camera, objects may not be displayed clearly.
- The screen may flicker under fluorescent light.
- The colors of objects on the rear view monitor may differ somewhat from those of the actual object.
- If dirt, rain or snow attaches to the camera, the monitor may not clearly display objects. If water droplets, snow or mud adhere to the camera lens, rinse with water and wipe with a dry cloth.
- Do not use alcohol, benzene or thinner to clean the camera. This will cause discoloration. To clean the camera, wipe with a clean cloth dampened with mild cleaner diluted with water and then wipe with a dry cloth.
- Will work up to 30 feet. Working distance varies depending on the interference between the monitor and the camera.
- The system is only designed for backup/reserving purposes. Manufacturer is not responsible for damages on the system or the vehicle if used for other purposes.
- ALWAYS engage Parking/Emergency/Hand Brakes of the vehicle when testing the system.
- Like most wireless devices, the system may cause interference to other wireless devices or vice versa. Wireless devices such as WIFI routers, Bluetooth devices, and mobile handsets may cause interference with the monitor. If this happens, you will notice rolling lines, blurry images, or static images on the monitor.
- The system is designed to ADD safety and protection. The device was NOT designed to replace other safe driving habits .Double checking and looking around before backing up is STILL the safest way.

SAFETY AROUND AND BEHIND OTHER VEHICLES

Using a rear-view camera is not enough to completely overcome a vehicle's blind spot. Many preventable injuries and deaths occur in driveways or parking lots when drivers do not see children, pets, or others near their vehicles. Here are a few safety tips that will help you to avoid a backover accident.

- Walk completely around your vehicle before getting in. Check for kids, toys, and pets before entering the vehicle and starting the engine.
- Know where children are. Have children stand in a place where they are in full view.
- Be aware of young children. Young children are small and hard to see.
- Parents, caregivers and all adults need to be vigilant in supervising children, especially when children are in the yard, driveway or parking lot playing near parked cars.
- Roll down your window so you will be able to hear what is happening outside your vehicle.
- Teach children to move away from a vehicle whenever it is started.

TESTING THE SYSTEM

- 1)Connect vehicle battery cables.
- 2)Turn ignition to "ON" position without starting the engine.
- 3)Press monitor "ON/OFF" power button to start monitor.
- 4)Engage parking brakes and put the car in reverse.
- 5)Wait for monitor to show rear view image.
- 6)If needed, switch the image orientation to acquire the correct view. Press the rotate button until desired image orientation is achieved.