



# **ELPC40B** **USER MANUAL**

## **REAR OR FRONT VIEW LICENSE PLATE MOUNT CAMERA**

FEATURING WIDE ANGLE VIEW,  
HIGH RESOLUTION COLOR,  
WATERPROOF/DUSTPROOF,  
AND DISCREET MOUNTING BRACKET



## Introduction

This camera is designed for use as a front view or rear facing back up camera. Conveniently mounted behind your license plate while hiding the mounting bracket. When installed with any of our camera-capable head units, the camera feed may be automatically triggered by shifting into reverse or manually selected from the home screen.

## Package Contents

- 1x Camera with mounting solution and power/video female connector
- 1x Power/Video cable with male (yellow) RCA and male bullet terminal
- User manual

## Important

The User Manual should be read prior to installation and use of the product. Failure to read User Manual could result in injury, and/or damage to the product. This could potentially void the warranty.

### Important safety precautions

- Use of this camera should be in addition to standard safe driving practices. Always check your surroundings and use your mirrors when backing up.
- Always remember there may be obstacles out of the display area of the camera. Certain obstacles may not be easily detected or seen by the camera alone.

### Installation precautions

- **WARNING:** Always consult a professional installer.
- Improper wiring and mounting of the camera can cause damage, injury or accident. Contact our technical support for any installation questions.
- Disconnect the negative terminal of the vehicle battery prior to wiring.
- When making modifications to your car due to the installation, make sure the safety and structural integrity of the car is not impaired.
- It is highly recommended to route and secure the camera's cable along factory wiring of the vehicle. Depending on your application this may be beneath the carpet, inside the headliner, interior panels or frame rails.

## Wiring

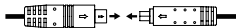
- Follow the steps described below to install this product as a front camera or a rear camera.
- For the rear camera view to automatically display on the head unit when reversing, ensure the **“REVERSE”** input trigger wire is connected to the vehicle's positive reverse light wire. If installed with a front camera, the front camera feed will not be accessible when reversing.
- Both rear and front camera view can be selected via Home screen options on your head unit.

1. Connect the video cable's yellow RCA plug to the **“Front Camera Input”** or **“Rear Camera Input”** signal input depending on the placement of the camera on the vehicle.

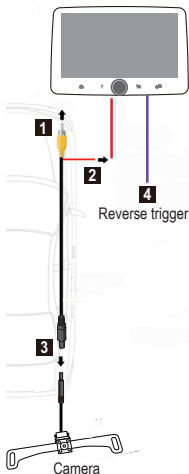
2. Connect the red wire from the power/video cable to your head unit's designated FRONT or REAR Camera power output wire. Use the appropriate camera output wire that matches the camera's placement on the vehicle.

3. Connect the black male connector of the power/video cable to the female connector on the camera for power and video connection.

When connecting, align the arrows on the connector bodies to ensure proper engagement.



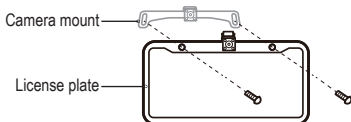
4. Identify the vehicle's positive reverse light wire. Tap and extend it to the reverse input trigger of the head unit. This is only for rear view camera installation.



## Mounting

The camera is designed to be mounted behind the license plate of your vehicle. Line up the camera mount with the existing holes on the license plate. Drilling is not required for the camera mount.

1. Identify an opening near the license plate to route the wiring into the vehicle. Removing the license plate lamp or in some cases drilling a small hole may be required to route the cable into the vehicle.
2. Unfasten the license plate's screws. Align the camera mount with the two top license plate mounting holes. Refasten the camera and license plate assembly to the vehicle.



3. Verify the camera angle is properly positioned. If needed, loosen the screws and adjust the camera angle then refasten the screws.

## Troubleshooting

Problem	Solution
No image	Verify the camera's power cable is securely plugged. Verify there is correct and secure wiring between the camera and your head unit. Verify the reverse wire on your head unit is connected to the vehicle's reverse light. Verify correct camera settings on your head unit. Restart the camera.
Image blurry	Check for water drops or dust on the camera lens. Clean it with a damp, fiber-free cloth.
Image shaking	Verify the camera is tightly mounted.
Image slanted	Adjust the camera frame position.

## Image Setting Options

- The camera supports AHD (720p) and CVBS (480p) video format. If your monitor does not support AHD (unable to display images), cut the green wire loop (labeled "AHD/CVBS Resolution") which splits from the camera's cable to switch the camera to CVBS format.
- To remove the on-screen parking guidelines, cut the white wire loop which splits from the camera's cable. Otherwise, keep the white wire loop uncut.
- If the camera image appears reverse, cut the blue wire loop which splits from the camera's cable. Otherwise, keep the blue wire loop uncut.

**Important:** If any cuts were made for the above 3 options, you must cycle the camera power to enable the new setting.

## Specifications

Power supply .....	12 VDC
Viewing angle .....	120° (AHD), 115° (CVBS)
TV system.....	NTSC
Video output .....	1.0 vp-p, 75 Ω
S/N ratio.....	≤45 dB
Ingress protection rating .....	IP68 (waterproof)
Operating conditions.....	-40 to +185°F (-40 to +85°C) Max. 95% RH
White balance .....	Auto
Illumination .....	Min. 0.1 lux
Automatic gain control (AGC).....	Auto
Resolution (TV lines) .....	720 (AHD), 480 (CVBS)
Electronic shutter speed .....	1/60 (NTSC)
Effective pixels.....	1280 x 720 (AHD), 648 x 488 (CVBS)
Dimensions (L x W x H) .....	7.756" x 0.88" x 0.88" (197 x 22 x 22 mm)
Cable length .....	236"/6m (power/video cable) 24"/0.6m (camera's cable)

*Specifications are subject to change without notice.*

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