



## **2101/2102 Series Flush Mount Camera Installation Manual**

### ***Features***

- All Aluminum chassis
- High Resolution, 1/3-inch CMOS Color Camera
- IP69K Waterproof Housing
- Wide View Angle
- Selectable Image: Normal/Reverse
- Heavy Duty 4 Pin Screw Lock Connection
- Selectable Parking Line – ON/OFF

## **Camera Installation**

Find a suitable location on the vehicle where the camera will not interfere with any equipment or that other vehicle components will block the line of sight. Verify that the planned mounting location is accessible from behind and that you have access to route the wiring inside the vehicle.

For FMVSS111 compliance, you must ensure the mounting angle will give a clear view of the rear of the vehicle and the objects behind it. Refer to the FMVSS111 Compliance standards required for vehicle builders/up fitters, etc. for specifics.

1. You will need a 7/8-inch drill bit and a bottle of rust preventive, which are not included with this camera.
2. Check behind the intended drilling location before drilling to verify that no wires or mechanisms can interfere with or be damaged when drilling.
3. Check for interference with license plate lights, hatch release, airbag or back up sensors and/or any other mechanism.
4. Drill a 7/8-inch hole at the selected location.
5. Coat the edge of the hole with rust preventative.
6. Route the camera wiring into the vehicle. The wire can be run through an existing grommet, behind a tail lamp, under the trunk molding, or if necessary, through a 5/8-inch hole drilled near the vehicle's rear license plate. **When choosing a wiring path, make sure the cable will not be damaged or pinched, as this may cause a short circuit that is not covered by the warranty.**

## ***Connecting the Video Signal***

1. The camera uses a single Heavy-Duty cable, and the camera power and signal will be provided through this cable from the monitor.
2. If using an alternative monitor, use an adaptor harness to split the signal to RCA connections then connect to the female RCA input on the alternative monitor. (Not included)

## ***Reverse/Normal Image Adjustment***

The camera comes standard with a reversed image, designed for mounting at the rear of the vehicle. If you need to change to a forward or normal image view, clip the **BLUE** jumper wire loop on the wiring cable to change the camera image to normal. Secure the clipped wires with electrical tape. To change back to reverse image view, reconnect the blue wires and secure with electrical tape.

**NOTE: You MUST shut power off to the camera and then repower for the change to take effect.**

## ***Camera Parking Line Setup***

The camera comes standard with parking lines **NOT** active if you wish to enable the parking lines, clip the **GREEN** jumper wire loop on the wiring cable. Secure the clipped wires with electrical tape. Reconnect the camera to the cable and turn the power back on. To turn the park lines back on, reconnect the green wires and secure them with electrical tape. **NOTE: You MUST shut power off to the camera and then repower for the change to take effect.**

## **Specifications**

1. Voltage: DC6V-24V
2. Current: 50 mA
3. Signal System: NTSC
4. Image Sensor: 1/3" CMOS Sensor
5. Viewing Angle: 210<sup>o</sup> – 150 degrees, 210<sup>o</sup> - 180 degrees
6. Minimum Illumination: 0.1 Lux
7. Waterproof / Dustproof: IP69K
8. Operating Temp: -30c - +75c
9. Image Display: Selectable Normal/Reverse Image
10. Park Lines: On/Off

## **Troubleshooting**

<b>Symptom</b>	<b>Solution</b>
No video signal appears while reversing the vehicle	<ul style="list-style-type: none"><li>• Check the rear-view camera lens and clean it if needed.</li><li>• Check the rear-view camera wiring connection and connection at the monitor.</li><li>• Check the monitor fuse if blown, replace <b>ONLY</b> with the correct size.</li></ul>
Video image is not sharp enough	Clean the camera lens.

## Warranty

The Company (Zorg North America) warrants that if this product or any part thereof, under regular use, be proven defective in material or workmanship within 36 months from the date of original purchase, such defect(s) will be repaired or replaced with a new or reconditioned product (at the company's option) without charge for parts and repair labor. The company will not be responsible for more than the original product cost. Shipping is not covered. Contact your Vehicle Upfitter, Body or Chassis Builder, or Vehicle converter for warranty coverage or information.

**This product is NOT covered under the OEM vehicle warranty. Zorg North America will not be responsible for 3rd party (Car Dealer) diagnostic or labor charges.**

**What is not covered? This warranty does not cover the following:**

- Damage incurred during shipping or transporting the product to the company or a service center.
- Elimination of car static or motor noise
- Defects in cosmetic, decorative, or non-operative structural parts.
- Costs incurred for installation, removal, or re-installation of the product or consequential damage to accessories or vehicle electrical systems.
- Damage caused by improper installation, mishandling, misuse, neglect, accident, blown fuses, battery leakage, theft, or improper storage.
- Products whose factory serial number/bar code label(s) or markings have been removed or defaced.
- Damage resulting from moisture, humidity, excessive temperature, extreme environmental conditions, or external natural causes.
- Shipping to Zorg North America for Service or replacement.

**Any return must be pre-authorized by Zorg North America, or it will be returned without repair.**