

# WorkZone PreView<sup>®</sup> w/VideoLink

## QUICK INSTALLATION GUIDE



10335 W Emerald St  
Boise, ID 83704  
Phone 1.208.323.1000

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**PRECO**  
ELECTRONICS

**1 Before You Start**

**Contents:**  
WZPV52XX Sensor (1) **'XX' in Model is detection range 10' / 15'**  
Sensor Mounting Hardware: 4 each  
1 1/4" x 10-24 Bolts, Locking Hex Nuts, and Flat Washers  
PVL4000 VideoLink  
Mounting Hardware:  
2 each— 1 1/4-20 Nylock Nuts, 1/4" Flat Washers,  
1/4-20 X 1 1/2" Cap Screws, 1/4" X 1 1/2" Lag Screws  
PVL41HRS Cable (1)  
PVL41XX Cable (1) **'XX' in Model is Camera/Monitor Specific**  
PVL410B Buzzer Kit (1) (shown on back)

User Manuals for Sensor and VideoLink and Sensor Drill Template

<b>SENSOR HARDWARE</b>		<b>PVL410B</b>	
<b>VIDEOLINK HARDWARE</b>			

**2 Mount Sensor**

Select a location for the sensor approximately 3ft/1M above the ground. (If the sensor must be installed higher than 3ft/1M, the sensor may need to be tilted down slightly to achieve the desired detection zone.) Ideally the sensor should be centered on the rear of the vehicle. Reference the Drill Template to mark and drill the holes for mounting the sensors. Mount the sensors using the supplied hardware with a 22 in-lbs maximum torque.

**Important!**  
Before the PreView System is permanently installed to the vehicle, verify the selected location provides a clear detection zone. Temporarily attach the sensor in the proposed location, apply power to the system, and verify nothing is detected.

**3 Mount VideoLink**

Typical mounting location is near the reverse camera in an area protected from external damage. Bolt the VideoLink near the camera taking care to mount with the cable exits pointed down when possible.

The PVL410B Buzzer Kit is supplied and may be installed if a louder audible alert is desired (installation guide included in kit).

**4 Install Cables**

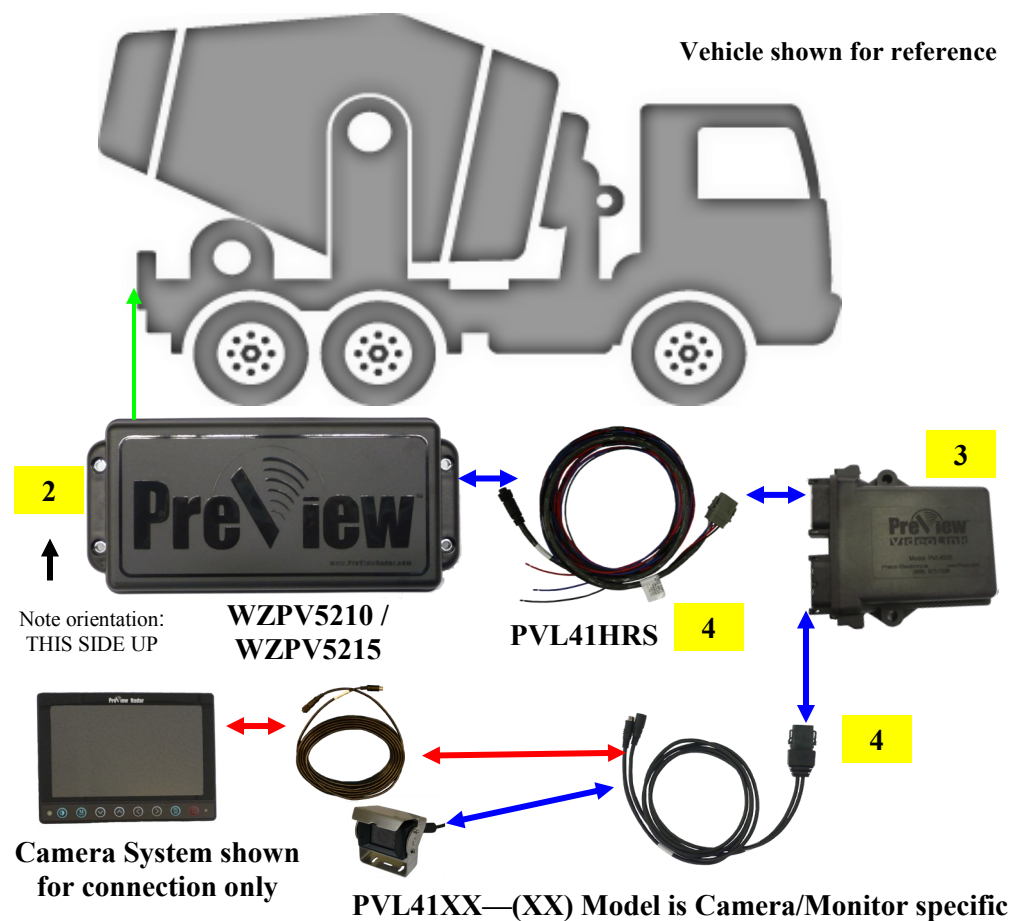
Routing the cable should start at the sensor. Allow a small service loop in the cable at the sensor and secure the cable every few feet (~1M) with tie wraps. Connect PVL41HRS gray Deutsch connector to gray connector on VideoLink.

Connect PVL41XX black Deutsch connector to black connector on VideoLink. Connect other ends of PVL41XX to Camera connector and Monitor connector. **Verify connectors snap into VideoLink for proper sealing.**

**Important!**  
**The sensor mating connector is fully waterproof if mated properly. The cable connector requires the collar (coupling ring) to be turned to the right until it locks. Do not route cable next to heat sources or area that may see abrasion or rock and debris damage. Bundle and store any excess cable.**

**SENSOR** **PVL4000**

Connect Red Wire to Keyed Power  
Connect Black wire to Ground  
Connect Green wire to Reverse Power  
Blue Wire—Auxiliary Output



**Wire Connections** **Wiring Diagram** **Back Page**

Contact Technical Support with Questions:

Telephone: 208.323.1000  
Web: [www.PreViewRadar.com](http://www.PreViewRadar.com)  
Email: [support@preco.com](mailto:support@preco.com)

The quick install guide is only a supplement to the product manuals. Please read all of the manuals for complete information and instructions before installing the product.

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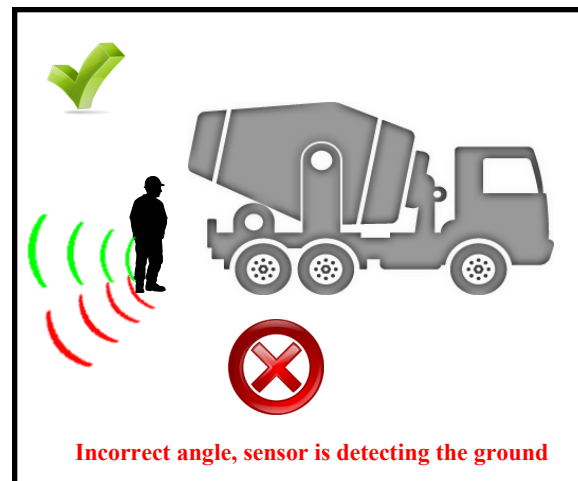
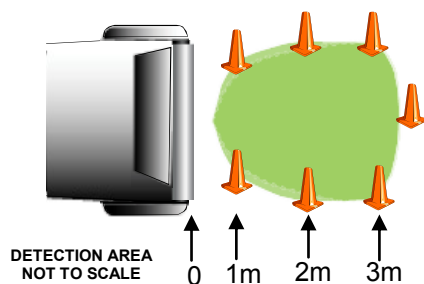
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### Initial System Power Up and Test

Once the Sensor and VideoLink are installed, wired, and connected, power should be applied to test system operation. The vehicle must be placed in reverse to power up the system, the Monitor displays the camera view and the overlay indicates System Power / No Detection. If any detection is visible, check for any vehicle obstruction which may be detected by the sensor. If possible, move the sensor so it does not detect the object(s). If it is not possible to relocate the sensor, contact Preco Electronics, Inc™.

If the Overlay displays - No Communication (as shown below), there is a communication error between the VideoLink and the Sensor. Refer to the 'Troubleshooting' section in the VideoLink manual to determine the error and potential causes.

Once the system has been installed, the detection zone should be tested. The test should be performed with two people, one who remains in the cab (the operator), and one who walks through the sensor field to the rear of the vehicle (the assistant). The operator engages the parking brake, presses the vehicle brake, and places the vehicle in reverse. The assistant then walks through the detection zone while the operator notes the indicators on the overlay and hears an audible tone (from the buzzer). As the assistant moves closer to the vehicle, more indicators appear and the audible tone rate has increased. An accurate detection zone can be mapped by moving about the rear of the vehicle and noting changes to the image as well as the audible tone. The monitor volume may need to be increased to hear the audible tones. If it is not loud enough, the optional PVL410B kit may be installed



The PreView® system is designed to supplement other safety practices and/or devices, it is not to be the sole method of collision avoidance. The machine operator is always the first line of defense when safely operating a vehicle.

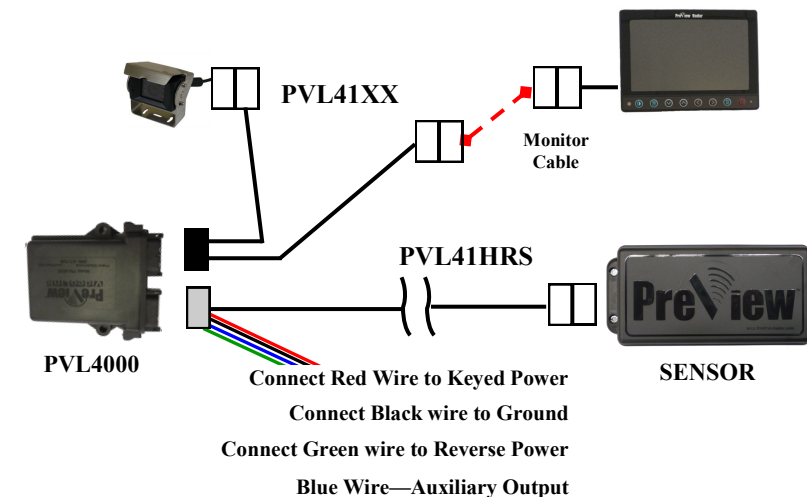
The PVL41HRS cable between the sensor and VideoLink is 3' (1M) in length. If a longer cable is needed, contact Preco for additional cable extensions.

Extension Cables Available:

- HRPV4110 = 10'
- HRPV4115 = 15'
- HRPV4125 = 25'

### MONITOR OVERLAY GRAPHICS

- SYSTEM POWER / NO DETECTION
- NO SENSOR COMMUNICATION Between Sensor and VideoLink
- DETECTING OBJECTS
- Overlay indicator - increased indicators for close in detection



The Sensor should be centered on the rear of the vehicle for best coverage. **Caution:** The tilt angle of the sensor will determine the path of the radar. (See image above)

### TESTING / MAINTENANCE

Test the PreView® System every day for functionality and performance prior to vehicle operation, refer to the sensor manual.