

# Built Tough for Heavy-duty Industries.



PreView Sentry® radar is the most flexible and reliable radar available for heavy-duty vehicle and equipment industries. Sentry accurately detects objects in equipment blind zones and notifies the operator with both audible and visual alerts. These alerts warn the operator of potential collisions and allow them to take the appropriate action. Sentry is built tough to withstand the harshest working conditions imaginable, so it works everytime, all the time.

Construction

Mining

Trucking

Fleet

Waste

Utility

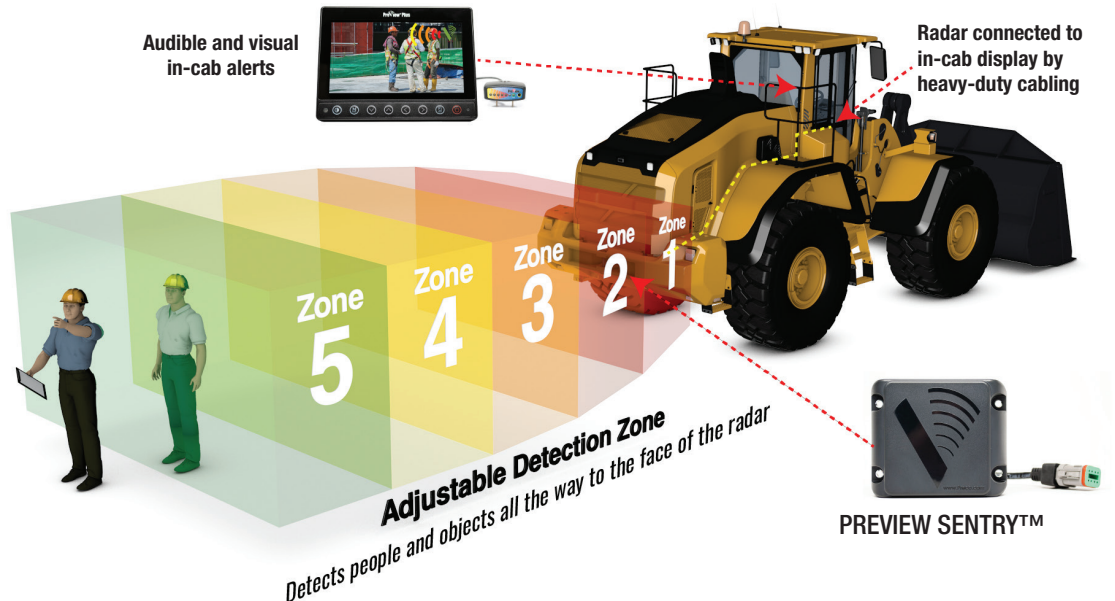
Delivery

Municipalities

Audible and visual in-cab alerts



Radar connected to in-cab display by heavy-duty cabling



PREVIEW SENTRY™

**PRECO**  
ELECTRONICS



## Flexibility and Reliability

PreView Sentry® is the world's most flexible object detection radar. With programmable detection zones, PreView Sentry can cover rear, side and front blind spots on any equipment or vehicle. Built tough for heavy-duty applications, Sentry will help companies reduce costs, decrease the incidents of collisions and most importantly, save lives.

- Rugged design, engineered to operate in all weather conditions
- Customizable detection zones - range and width
- Measures distance and angle to objects, providing object location
- Measures velocity of objects
- Provides in-cab audible and visual active alerts
- Integrates with PreView Plus camera/monitor system, or any existing vision system
- Built-in sensor failure alert
- CANbus communication protocol - ability to report sensor data to a logging device or telematics applications
- Ability to track up to 16 objects simultaneously
- Detects objects all the way to the face of the radar

### Technical Data

#### Measuring Performance

**Programmable Range** 0 - 30 m

**Programmable Width** 2 - 8 m

**Azimuth Field of View** ±75°

**Elevation Field of View** ±10°

#### Operating Conditions

**Frequency** 24.00 - 23.25 GHz (ISM Band)

**Power Supply** 9 - 33 Vdc, Reverse polarity and over-voltage protected

**Current** <0.5 A

**Operating Temperature** -40° C - 85°C

**Shock** 50 G

**Vibration** 25 G, random, all three axis

**Protection Rating** IP69K

Environmentally  
Hardened  
Polycarbonate  
Radome

0.5 kg

10.3 cm

12.5 cm

#### Communication Interface

**J1939/ISO 11898 CANbus** 250 Kbits/sec, terminated, with 120 ohm resistor (default). Supports up to 500 Kbits/sec

Supports up to 8 radars on a single J1939 bus (CANbus)

#### Alarm Output Interface

Switch to ground, sink up to 1 amp, over current protected



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