



Blind Spot Safety Solutions

We've got your *blind spot* covered



HEAVY DUTY
OBJECT DETECTION SYSTEMS

Detect objects in blind spots

Actively notify operators of objects

Reduce blind spot accidents

PreView Blind Spot Safety

A SIMPLY EFFECTIVE SAFETY SYSTEM



Prevent Collisions: PreView Radar is a pulsed radar object detection sensor designed to detect moving and stationary objects in operator blind spots. Distance to the nearest object is relayed to the in-cab display. This display provides both an audible tone that increases in speed as an object becomes closer and visual LED lights.

Engineered Simplicity: PreView consists of three simple components: 1) external sensor; 2) in-cab display to provide visual and audible notification to the operator; and 3) cable system to connect the sensor and display. Detection range can be up to 32 feet / 10 meters depending on the sensor chosen and your specific needs.

Rugged: This is **not** your automotive-grade backing aid. PreView's rugged sensor design is specially encased to take on the harsh conditions common with heavy duty trucks and machines. PreView sensors continue to be an effective tool in the most extreme conditions, such as construction sites and working mines where mud, dust, and grime is measured in inches. Additionally, PreView can still "see" those hidden objects in even the worst weather, including snow, fog, heavy rains, and ice.

RELIABLE AND PROVEN

PreView customers are reporting **reductions of more than 75% in blind spot accidents** since installing PreView on their heavy duty fleets.



“REDUCED OUR BLIND SPOT ACCIDENTS BY MORE THAN 75%”

J.F., Waste

Benefits

Active object detection radar

Notifies drivers of surrounding objects

Effective in extreme weather and work site conditions

Reduces accidents by more than 75%

Saves lives and protects property

Backed by Preco Electronics, the leader in safety since 1947

Expandable technology provides a strong backbone for passive camera systems, reversing lights, and back-up alarms

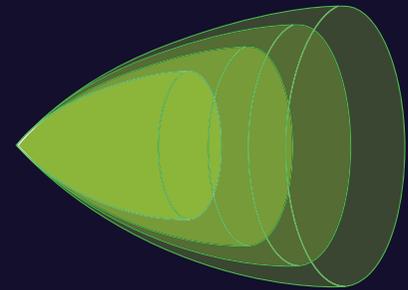
Sensors vary by Vehicle Type / Industry: A driver operating an on-road utility truck does not face the same obstacles and blind spots as a haul truck operator in a surface mine. That is why we've designed different sensors to meet the varied needs of each vehicle and industry.

Compatible & Expandable: The backbone to a complete blind spot safety approach, PreView provides an active component that will work with or automatically activate reversing alarms, safety lights, camera systems, digital recorders, and more.

“IT JUST WORKS”
S.W., Mining

Dare to Compare: It's not even close. There is no other system on the market today that works as well as PreView in the heavy duty industry.

PreView puts the control back into the hands of your operators, your first line of defense against accidents.



↑ ↑ ↑
Detection ranges vary by sensor. Audible & Visual LEDs provides proximity ranging

	PREVIEW	ULTRASONIC	CAMERAS
Consistently works in severe duty applications	x		
Provide driver w/ audible & visual in-cab warnings	x	x	
Operates in extreme weather conditions	x		
Supports multiple inputs	x		x
Compatible w/other safety tools	x		x
Supports on-road and off-road vehicles	x		x

The benefits, features and great versatility of Preco's PreView technology positions it as a premier safety system for not only on-road and off-road use but also adaptable to many non vehicle applications. Please contact Preco with any questions regarding your specific safety application needs.



PreView has blind spots covered

If you've operated a vehicle, you've had to navigate through blind spots. Depending on your industry and the vehicle that you are operating, the blind spot could be in front, on the side or behind the vehicle. It could be large or small. It could be caused by poor weather conditions, dust or debris. You may have to navigate in tight spaces, around heavy pedestrian traffic, or multiple machines. In some industries, it's a combination of all of the above. That is why PreView doesn't have a one size fits all approach. Whether your detection area requires close-in coverage because of a busy work site, or a slightly larger detection area for big mining equipment, PreView has a sensor that will cover your blind spot to reduce your blind spot accidents.



PreView for HEAVY DUTY VEHICLES

Mining, Construction, Aggregate, Quarry

Heavy duty vehicles are rugged, the work conditions are grimy, and they keep working regardless of the weather conditions. The operators blind spot can be massive, and in the front, sides and back of the vehicle. The work obstacles range from other vehicles to machines to busy foot traffic.

It's not enough to know something is there, you need to have an idea of the object's proximity to determine the level of danger and when to react. The PreView Radar sensors for these aggressive vehicles provide a rugged design, varying detection zones (from 10ft to 32ft / 3m to 10m), and proximity ranging through an in-cab audible and visual display.



PreView for SPECIALITY / INDUSTRIAL VEHICLES

Fork Lifts, Ports, Material & Handling

Smaller in stature, but critical to business, Fork Lifts are the backbone of Ports and Material & Handling industries. A fork lift must maneuver in tight spaces surrounded by multiple objects, people, and other vehicles. The blind spots created in this obstacle course environment have resulted in high accident rates and costly workmans comp claims due to blind spot accidents. That is why PreView created a solution that detects objects that are just one foot away from the vehicle with a narrow detection zone. The operator is notified through an audible warning, giving him enough time to react before a collision occurs.





PreView for LIGHT and MEDIUM DUTY VEHICLES

Utility, Emergency Response, Light Construction

The drivers of these work horses are tasked with quickly responding to busy emergency scenes; fighting fog, snow, and extreme conditions to bring power back to our homes; and digging through hard surfaces to get to gas and cable lines. The scenes are often chaotic, with the driver maneuvering around other vehicles, curious onlookers, and coworkers on foot.

With a keen understanding of the obstacles drivers face every day to do their job, we've created PreView Radar Systems that offer close-in detection for corner-to-corner bumper coverage, the ability to activate cameras, back-up alarms or safety lights once something is detected, and of course a rugged sensor that works consistently in the most rigorous conditions.

PreView for REFUSE VEHICLES

Side Loaders, Front Loaders, Rear Loaders

Refuse drivers work in and around neighborhoods and commercial communities every day. It is not uncommon for children or inattentive workers to dart into the path of a reversing refuse truck. Even the most attentive drivers cannot look in all their mirrors at the same time. They need an extra set of eyes. The solution is the PreView dual sensor system created specifically for refuse vehicles. The sensors work in tandem to detect objects that sneak in behind the refuse vehicle. The driver receives an audible and visual warning when an object is detected. As the object becomes closer, the audible warning becomes faster and more urgent. The driver reacts, and a collision is avoided.



CREATIVE uses for PreView

Airports, Fencing, Drilling, Security and more

We learned from some creative customers the need for object detection isn't limited to the heavy duty vehicle industry. Following are just a couple of examples of how PreView has been successful in creative ways:

PreView was installed around the perimeter of a stationary drill to detect when someone walked into a fixed danger area. Once detected, PreView was programmed to automatically turn off the drill.

An international airport is using the PreView Sensors on their jet ways to prevent costly damage that was occurring when jet ways would collide into surrounding objects. PreView was installed on the jet way to determine the proximity of the surrounding objects. The operator is notified of the close object and is able to stop the jet way from extending before a collision occurs.

PreView SENSORS

Preco Electronics products are ISO9000 certified. All PreView Sensors are FCC approved.

Xtreme PreView



Specifications	Detection Zone / Model Number
Sensor unit: 7.4" (w) x 2.4" (d) x 7.6" (h)	Up to 20ft / 6m detection zone / XPV4220
In-Cab unit: 2.3" (w) x 2" (d) x 1" (h)	Up to 26ft / 8m detection zone / XPV4226
Current Draw: < 1/2 AMP	Up to 32ft / 10m detection zone / XPV4232
Operating Temperatures: -40° F to +185° F -40° C to +85° C	Customized detection zone configuration available with Preco Service Tool
	Utilizes standard CAN communication protocol to integrate or activate other safety systems

Ideal Applications:

Large off-road mining vehicles with large blind spots that need to detect objects at distances from 20ft–32ft (6m–10m). Suggested vehicles include the following mining applications: Haul Trucks (example below), Wheel Loaders, Wheel Dozers, Excavators, and Shovels.

One Xtreme sensor mounted on rear to detect objects in operators large blind spots.



WorkZone PreView

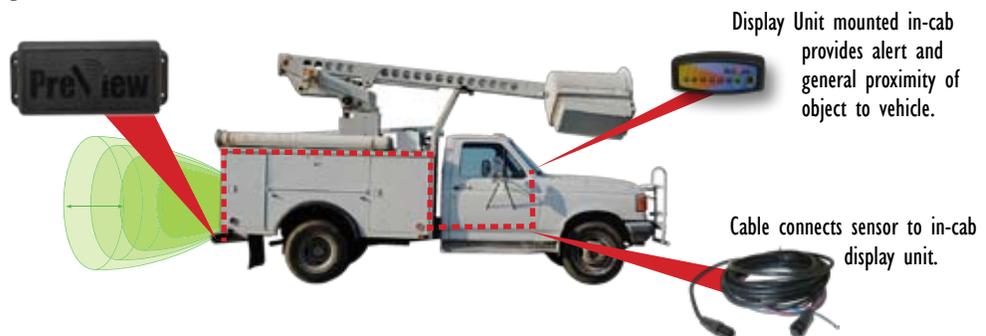


Specifications	Detection Zone / Model Number
Sensor unit: 9.25" (w) x 1.60" (d) x 4.36" (h)	10ft/3m detection zone / WZPV5010
In-Cab unit: 2.3" (w) x 2" (d) x 1" (h)	Available with audible only or audible/visual display unit
Current Draw: < 1/2 AMP	Corner-to-corner coverage
Operating Temperatures: -40° F to +185° F -40° C to +85° C	Utilizes standard CAN Communication protocol to integrate with other safety systems

Ideal Applications:

On road vehicles with smaller blind spots requiring a narrow detection area. Sensors will detect objects 10ft/3m behind the sensor. Suggested vehicles include Utility Bucket Trucks (example below), Service body trucks, and other vehicles that maneuver on narrow roads and tight spaces.

WorkZone Radar Sensor mounted on back provides a more narrow beam for on-road applications.

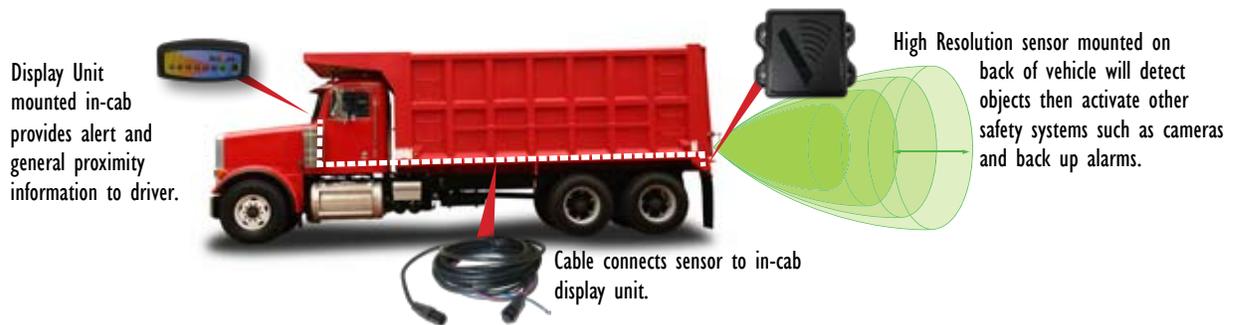


High Resolution PreView



Specifications	Detection Zone / Model Number
Sensor unit: 4.13" (h) x 4.95" (w) x 1.7" (d)	Up to 10ft / 3m detection zone / HPRV4010
In-Cab unit: 2.3" (w) x 2" (d) x 1" (h)	Up to 15ft / 4.5m detection zone / HPRV4015
Current Draw: < 1/2 AMP	Up to 20ft / 6m detection zone / HPRV4020
Operating Temperatures: -40° F to +185° F -40° C to +85° C	Customized detection zone configurations available with Preco Service Tool
Utilizes standard CAN communication protocol to integrate or active other safety systems	

High Resolution is CAN BUS enabled to integrate and activate other safety systems when an object is in the detection area. Ideal for smaller vehicles with tighter detection zone needs. Suggested vehicles include dump trucks (example below), shovels, rippers, wheel loaders, and cement trucks. (Note: High Resolution is not available in all markets. Please call for information.)



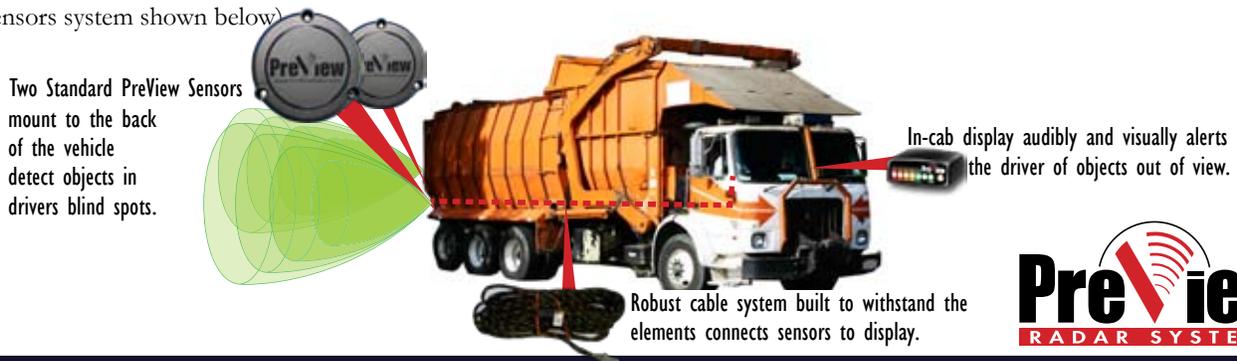
Fleet PreView utilizes the WorkZone sensor without the visual display or detection zone customization. Ideal for applications that maneuver in tight spaces and only require audible warning for drivers, it is most often used for Fork Lift operations.

Standard PreView



Specifications	Detection Zone / Model Number
Sensor unit: 5.3" circular, 1.35" (d)	Up to 10ft / 3m detection zone / SPV2010
In-Cab unit: 2.3" (w) x 2" (d) x 1" (h)	Up to 15ft / 4.5m detection zone / SPV2015
Current Draw: < 1/2 AMP	Up to 20ft / 6m detection zone / SPV2020
Operating Temperatures: -40° F to +185° F -40° C to +85° C	PreView for Waste includes the combination of two specifically engineered Standard Sensors
The wider beam allows for mirror-to-mirror detection.	

Standard PreView offers the same rugged design as the other PreView sensors, with limited detection zones and a slightly wider radar beam. Suggested vehicles include step-up vans, delivery vehicles, school buses, and refuse trucks (Waste PreView dual sensors system shown below)



ACCESSORIES



ClearPATH

The ClearPath monitors and cameras are designed and tested to work in the extreme weather and work site conditions. The camera and in-cab monitor provides your operators a visual aid. When integrated with PreView Radar, your operators receive the additional audible warning they need to react to an object before an accident occurs. Monitors provide 800 x 400 resolution, 7" diagonal screen that supports four camera inputs and split screen capability.



VideoLINK

PreView VideoLink connects a passive camera system to the active PreView Radar System. By supporting multiple camera manufacturers, PreView VideoLink creates an integrated safety system that provides drivers an audible and visual tap on the shoulder that something may have appeared in their blind spot. (Left image shows how VideoLink overlays information onto your monitor, eliminating the needs for multiple displays in the cab.)



PrecoNet Service Tool

Preco offers the PrecoNet Service Tool for those customers that need to configure the High Resolution or Xtreme sensors on their site. The PrecoNet Service Tool allows you to customize when the display reacts to an object and the sensor detection zone area (depending on sensor limitation). The PrecoNet Service Tool is ideal for dealers who support multiple sensors and work sites.

Integrated Safety Systems

Preco Electronics, the leader in Heavy Duty Safety, has designed system configurations to provide our customers an integrated approach to increasing their safety ratings and reducing their blind spot accidents.

PreView ClearPath Safety System

This system integrates the ClearPath Camera, VideoLink and PreView Radar Sensors, giving your operators the government recommended combination of safety products to reduce blind spot accidents.

PreView Safety Alert System

The PreView Radar sensor detects an object in the blind spot. Once the object is detected, PreView triggers the back-up alarm to either increase the sound of the alarm OR change the beep rate to alert pedestrians outside of the vehicle of the danger.

Custom System Configurations

Thanks to the advanced engineering by the Preco Engineers, the technology behind PreView Sensors can easily integrate or control your vehicles existing or new safety systems.

To get more details about reducing your blind spot accidents with the robust PreView safety products

call: 1.866.977.7326

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