

PREVIEW SIDE DEFENDER™



PRECO
ELECTRONICS

PreView Side Defender radar is the most advanced side object detection radar available for on-road medium and heavy-duty trucks. Side Defender accurately detects objects in the truck's side blind zones and notifies the operator with

both audible and visual alerts. These active alerts warn the operator of potential collisions, allowing them to take the appropriate action. Side Defender is the next generation of side blind zone collision mitigation.

BUILT TOUGH FOR HEAVY DUTY INDUSTRIES

TRUCKING

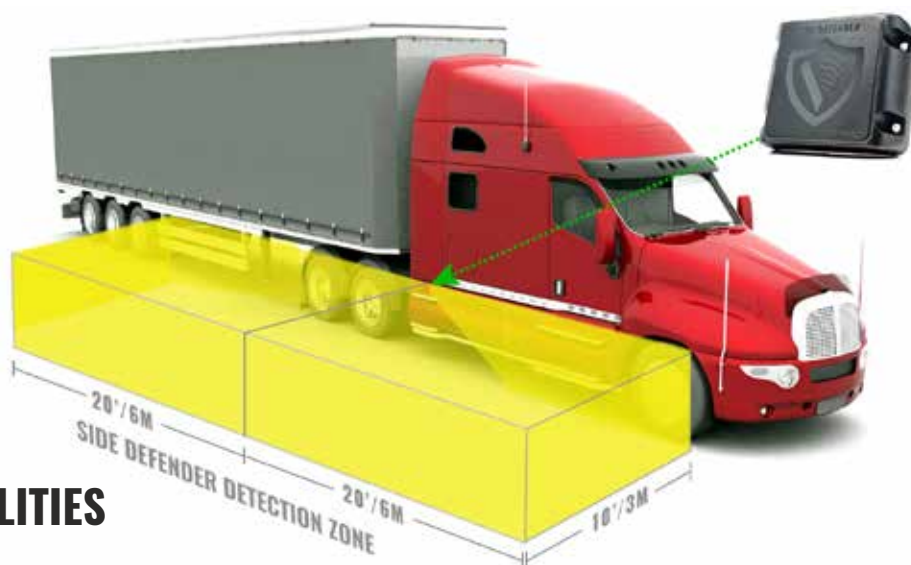
FLEET

WASTE

UTILITY

DELIVERY

MUNICIPALITIES



- Rugged design, engineered to operate in all weather conditions
- Intelligent Operating Modes
- Ability to ignore guardrails and other objects in order to reduce false alerts
- Provides the operator audible and visual in-cab active alerts
- CAN bus communication protocol - ability to report sensor data to a logging device or telematics applications



SIDE DEFENDER - INTELLIGENT OPERATING MODES

PreView Side Defender has the ability to read the vehicle speed messages via J1939/ISO 11898 CAN bus interface (an industry standard). When the radar reads the vehicle speed, it can operate intelligently in different modes.

HIGHWAY MODE

In highway mode, the PreView Side Defender will alert operators of vehicles in the side blind zones while ignoring stationary objects such as guardrails in order to reduce nuisance alerts.

SLOW SPEED MODE

In slow-speed mode, PreView Side Defender is positioned to play an integral role in the emerging side turn assist applications, aimed specifically at reducing the incidence of collisions with pedestrians and cyclists in urban environments.

SIDE DEFENDER - TECHNICAL DATA

MEASURING PERFORMANCE	
Range:	20' (6.1m) forward & aft of sensor (10dBsm target)
Side-lane range:	3m (Adjacent lane)
Azimuth Field of View:	±75 degrees (10dBsm target)
Elevation Field of View:	±8 degrees (10dBsm target)

OPERATING CONDITIONS	
Center Frequency:	24.125 GHz (ISM Band)
Power Supply:	9 – 33VDC
Current:	<0.5A
Operating Temperature:	-40C to +85C (-40F to +185F)
Shock:	50G
Vibration:	25G, random, all three axis
Protection Rating:	IP69K

OPERATING MODES	
Stopped/Slow Speed:	0 – 20mph/32kph – Detect moving and stationary targets. Detection zone is optimized for human detection
High Speed:	> 20mph/32kph – Ignore stationary objects (e.g. guardrails). Detection zone is optimized for vehicle detection
No J1939/ISO 11898 Speed Message:	Reverts to Stopped/Slow Speed Mode

COMMUNICATIONS INTERFACE	
J1939/ISO 11898 CAN Bus:	Supports either 250 or 500Kbits/sec, unterminated, source address = 0x8D
Alarm Output Interface	Switch to ground, over current protected to 1 amp sink maximum
	Can be used to drive LED mirror indicator

PRECO[®]
ELECTRONICS

PreView[®]
RADAR SYSTEMS

Environmentally Hardened
Polycarbonate Radome

1.1lb/0.5kg

Depth:
1.28"/3.3cm



4.06"/10.3cm

4.9"/12.5cm

