

Collision Mitigation Radar Systems Mini Catalogue 2022

**PreView Radar
Collision Safety**



Why you should buy from APS and our commitment to you!

- Better solutions and improved satisfaction with your chosen and installed solution;
- More consistent delivery schedules that achieve your DIFOT requirements due to direct manufacturer access and full disclosure of any unforeseen delays;
- Full access to over 100+ machine specific lighting and safety solutions. There is a very good chance with 25+ years of experience we have already developed a solution for your problem.
- APS only works with manufacturers that know your machines, applications and operating environments and build products to a standard not a compromise. We ensure that our solutions perform trouble free and with full support for the expected life of the product.

PreView Sentry®X - Narrow Beam Collision / Blind Spot Radar System



The Sentry®X is designed to suit specific rear detection applications where a narrower radar beam is required to prevent the detection of the inner rear wheels of a haul truck.

Specs

- Frequency: 24Ghz
- Meets rugged J1455 specs
- Programmable detection range: 0-30m (0-98')
- Programmable detection width: 0-60m (0-196')
- Azimuth field of view: $\pm 55^\circ$ (110° horizontal)



PreView Sentry®X Radar

PreView Sentry®X will not detect rear wheels of haul truck due to the narrower radar beam pattern.





PreView Sentry - Collision / Blind Spot Radar System (0-30m / 0-100')



PreView Sentry is a compact and robust, short/medium range radar solution designed for heavy-duty vehicles and machinery in mining and construction.

Benefits

- Actively monitor blind spots with audible/visual alerts
- Decrease blind spot accidents by 75%
- Boost fleet operator safety and productivity
- Reduce costly repairs and downtime
- Fully configurable detection zone
- Measures location and velocity of up to 16 people or objects simultaneously
- Designed for harsh environments encountered by heavy-duty equipment

Specs

- Frequency: 24Ghz
- Meets rugged J1455 specs
- Programmable detection range: 0 - 30m (0 - 98')
- Programmable detection width: 2 - 60m (6.5 - 196')



VIDEOS



CASE STUDIES



SPEC SHEETS

Preview Sentry Deutsch Kit

The PreView Sentry Deutsch Kit is a plug-and-play heavy-duty radar solution with a pre-configured sensor range.



Kit Includes:

- FMCW 24GHz Sentry radar sensor
- LED display
- 9m (30') heavy-duty body harness with Deutsch connectors
- 90° sensor mounting bracket and hardware



Preview Sentry Conxall Kit

Preview Sentry Conxall Kit is a plug-and-play medium-duty radar solution with a pre-configured sensor range.



Kit Includes:

- FMCW 24GHz Sentry radar sensor
- LED display
- 7.5m (25') cable with Conxall connectors
- 90° sensor mounting bracket and hardware



Authorised Importer and Master Distributor

APS Radar Layout Plans

Did you know that APS can provide complete radar layout plans for your heavy vehicle or machinery?

[CLICK TO SEE SOME SAMPLES](#)



Case Study: Mitigating Collisions on CAT D10/D11 Dozers

Problem: During mining operations in an open-pit mine, there has been an increase in reversing incidents between several D10 dozers. In one incident, an operator reversed at speed into the side of another dozer. Not only did this cause considerable damage to both pieces of machinery, the significant costs involved with loss of production had run into the hundreds of thousands of dollars.

Solution: Scan the QR code on the right or click: [Mitigating Collisions on Dozer Rippers](#)



Case Study: Collision Awareness Solution for Komatsu 830E Haul Truck

Problem: A Komatsu 830E haul truck had collided with a light vehicle (LV) at Alinta Energy's Leigh Creek Coal Mine in South Australia. The truck was moving forward from a parked position when it hit the light vehicle from the trucks RH corner. While nobody was injured in the incident, the near-miss highlighted just how easily things can go wrong when you mix large blind spots with inactive warning systems.

Solution: Scan the QR code on the right or click: [Collision Awareness Solution for Komatsu 830E](#)



Case Study: Collision Awareness Solution for Hitachi Shovels

Problem: During operations in a coal mine, there has been an increase in incidents between shovels and heavy haul trucks. In one particular incident, a haul truck parked inside the shovels exclusion zone (i.e. for the on-swinging bucket to load the trucks), the rear of the shovel collided with the front RH side of the haul truck.

Solution: Scan the QR code on the right or click: [Collision Awareness Solution for Hitachi Shovels](#)



Case Study: Mitigating Collisions on Forklifts

Problem: During operation of a 3.5T forklift in a cement production plant, forklifts occasionally collide with rows of packed bricks, the impact can cause the stack to collapse or be pushed onto a fellow forklift operator in the parallel row, thus causing serious injury and damage.

Solution: Scan the QR code on the right or click: [Mitigating Collisions on Forklifts](#)

