

Vibroseis Collision Avoidance

The Collision Avoidance system consists of cameras and sensors installed on the vibroseis vehicle. The system provides the operator a 360 degree view around the vehicle and also detects obstructions in the vehicle path, bringing the vehicle to a controller stop. The system helps reduce HSE risk and potential damage to property and equipment.

MONITOR

- 10.4" inch display
- 1024° x 768° Resolution
- Integrated large speaker for alarms
- Low Reflection TFT LCD (anti-glare)
- Proximity zone indicators on display
- 5 detection color zones



BACKEYE 360 CAMERAS

- 1280 x 720 Resolution
- 182° (Horizontal) x 118° (Vertical) viewing angle
- Over the vehicle 360 bird's eye view

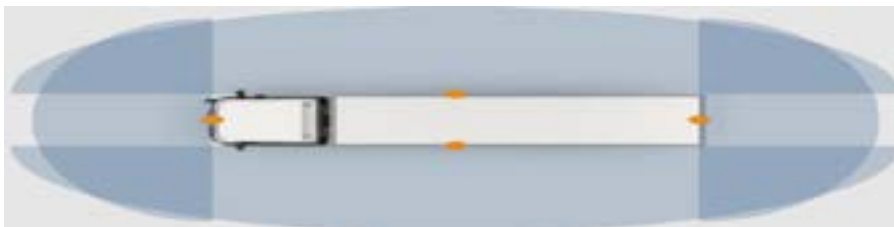


FRONT RADAR

- Detection area up to 60m out and 16m wide
- Horizontal detection angle of 140°
- Vertical detection angle of 16°
- Reaction time of $\leq 50\text{ms}$
- 77GHz frequency
- CAN 2.0 communication
- 16 objects detected at a time
- Frequency Modulated Continuous Wave Radar Technology (FMCW)

REAR RADAR

- Detection area up to 60m out and 10m wide
- Horizontal detection angle of 120°
- Vertical detection angle of 12°
- Reaction time of $\leq 500\text{ms}$
- 24GHz frequency
- CAN 2.0 communication
- 8 objects detected at a time
- Frequency Modulated Continuous Wave Radar Technology (FMCW)



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VEHICLE INTEGRATION

- Red zone detection between 0.5-5m
- Orange zone detection 5-7m
- Yellow zone detection 7-9m
- Dark Green zone detection 9-11m
- Green zone detection 11-15m
- Drive system disabled in red zone
- Drive system speed output limited to 20% in Orange and Yellow zones
- Override Button available for tough situations
- Environment resistant (dust, rain, glare, etc.)
- Stopping distance of 1m from object when approaching at highest speed
- Range to detect adult human, 5m

