



## **SIDE VIEW** OVERCOMING BLIND SPOTS

**MAX-SAFE**  | MAXIMUM SAFETY  
MADE BY **SGESC**  MAX



## OVERVIEW

**MAX-SAFE Side View™** is an affordable camera-based solution designed to detect and protect pedestrians and other vulnerable road users (VRUs) from turning vehicles. It is suitable for a wide range of heavy vehicles such as tippers, concrete agitators, waste vehicles, prime-movers, buses and heavy machinery. This advanced solution is mounted to the side mirror (left/right) or top of cab and can be combined with in-cabin alerts, recording monitors, as well as exterior audible and flashing light warnings to provide greater safety to people around the vehicle.

## PROTECTING VULNERABLE ROAD USERS

Heavy vehicles make up around 3% of the vehicles on Australian and New Zealand roads, yet are involved in around 16% of fatal road crashes. Across the region, pedestrians, cyclists and motor cyclists account for around 1 in 3 road deaths<sup>1</sup>.

Blind spots are a major factor for many heavy vehicle crashes, masking up to 40% of visibility on some vehicles. Side blind spots, particular on the left-hand-side for left turning vehicles are major risks to VRUs. Equally, right-

hand-side blind spots are dangerous for all traffic when heavy vehicles move right into lanes.

Being able to detect vulnerable road users keeps our roads safer while saving all parties the financial and emotional toll resulting from injuries and fatalities.

Using the latest advances in AI and Machine Learning, the **MAX-SAFE Side View** solution detects vulnerable road users within a defined zone to the side of the vehicle. This zone is pre-set but is fully configurable.

<sup>1</sup> Australia June 2022 12-month figure: 404 from 1179 deaths (34%). NZ Dec 2021 12-month figure: 76 from 318 deaths (24%)

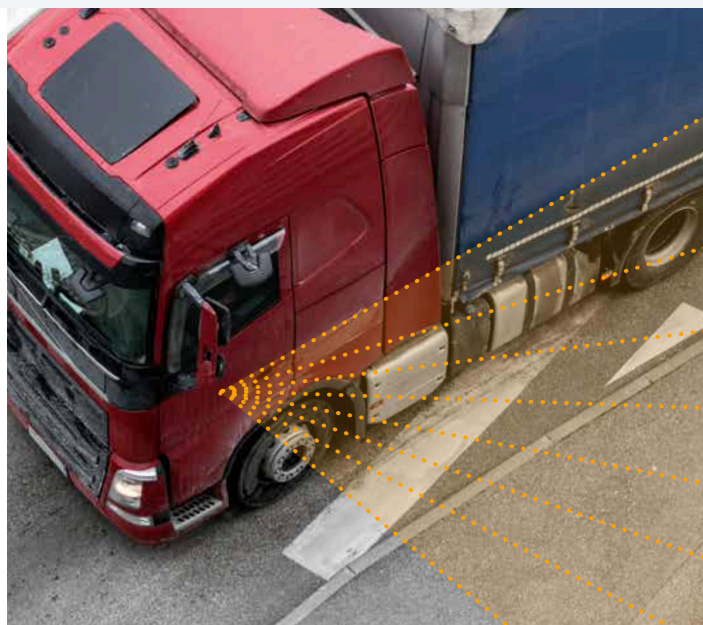
# **SIDE VIEW**

## HOW IT WORKS

The MAX-SAFE Side View solution uses state-of-the-art camera technology to assist drivers turning or pulling across to the left or right.

The system determines if the vehicle is turning via the indicator signal and the steering-angle. A mirror- or cab-mounted camera scans the incoming image to determine if it recognises a person within a defined *danger zone*, either moving or stationary. It does this by using in-built AI (Artificial Intelligence).

On detection of a person within the *danger zone*, the system reacts instantaneously by triggering a range of options.



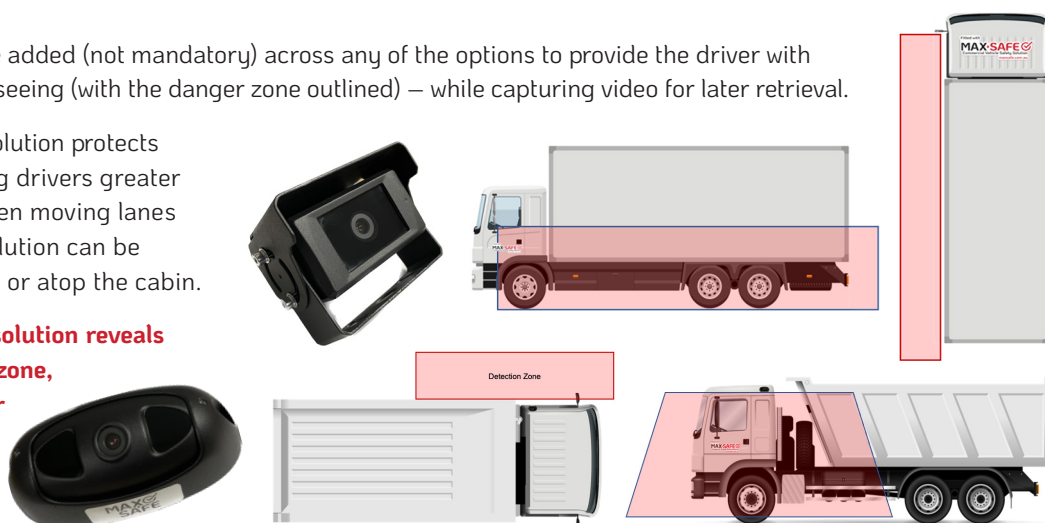
SAFETY OPTIONS	STANDARD	ADVANCED	PREMIUM
In-cabin light and audible voice alert	X	X	X
External loud speaker audible voice alert		X	X
External flashing light bar		X	X
Active Braking on detection <sup>2</sup>			X

<sup>2</sup> MAX-SAFE Anti-Rollaway Brake solution required.

A recordable monitor can be added (not mandatory) across any of the options to provide the driver with vision of what the camera is seeing (with the danger zone outlined) – while capturing video for later retrieval.

The MAX-SAFE Side View solution protects vulnerable road users, giving drivers greater confidence and certainty when moving lanes and turning corners. The solution can be mounted to the side mirrors or atop the cabin.

**The MAX-SAFE Side View solution reveals people in a side blind spot zone, providing greater safety for vulnerable road users.**



## HOW FITTED

The system has been designed to fit on side mirrors or on top of the cab and can be installed in new fleet builds or easily retrofitted. After it is installed, the system is calibrated before use.



### PLACEMENT

The camera is mounted on the mirror arm at a height of at least 2 metres or on the cab above the door.



### CABLING

The cables are routed through the door into the cab.



### INSTALLATION OF THE WARNING SYSTEM

The buzzer and light are mounted on the A-pillar.



The MAX-SAFE Side View™ solution is designed to protect vulnerable road users (VRUs) and provide certainty for drivers turning or changing lanes.

## BENEFITS

- ◆ PROVIDES ASSISTANCE to the driver.
- ◆ SAFEGUARDS the side of the VEHICLE.
- ◆ PROTECTS PEDESTRIANS, cyclists and motorcyclists.
- ◆ HIGH ACCURACY – detects people (stationary and moving).
- ◆ MORE AFFORDABLE than sensor systems.
- ◆ SUITABLE for most ANZ CONDITIONS.
- ◆ Provides ALERTS and AUDIBLE WARNINGS.
- ◆ STATE-OF-THE-ART AI GERMAN TECHNOLOGY.
- ◆ GREATER SAFETY and PEACE OF MIND – including for Fleet Managers.
- ◆ Part of the MAX-SAFE SAFETY ECO-SYSTEM.





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MAX-SAFE Support Assistance



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# MAX-SAFE | MAXIMUM SAFETY

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