

INSCAN

3D OPTICAL TIRE SCANNING

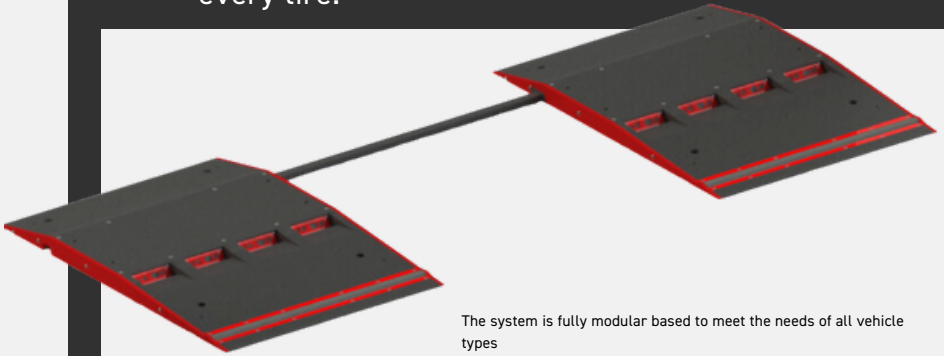
SEEING IS BELIEVING





WHAT IS INSCAN?

INSCAN is a fully automated tire scanning system that delivers instant, accurate tire insights every time a vehicle passes through. With automatic license plate recognition, it measures tread depth, captures tire data, and creates a precise 3D model of every tire.



The system is fully modular based to meet the needs of all vehicle types

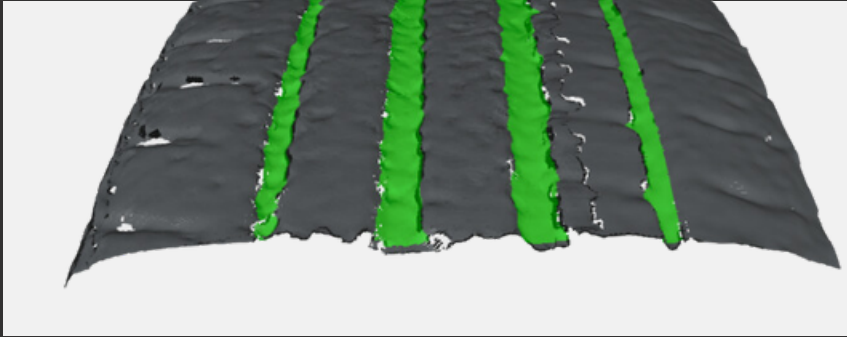


The cameras' high-speed image capture means the scanning can be done while the vehicle is driving at up to 5kph.

A full tire analysis report for the vehicle is available within seconds after scanning.



WHAT TECHNOLOGY IS BEHIND **INSCAN**?



INSCAN uses 3D cameras to generate point clouds, which are analyzed to provide precise measurements of the tire's complex surface. The cameras capture every contour, tread pattern, and curve with high accuracy, enabling quick and reliable measurements of diameter, width, and tread depth. Additional post-processing analysis can identify irregular wear, tire misalignment, and issues arising from persistent underinflation.



FEATURES



1

**3D SCANNING FOR RTD - AI ENABLED
CAMERAS - MODULAR DESIGN**

2

**LPR VIA ML FOR
VEHICLE IDENTIFICATION**

3

**TPMS SCANNING FOR
PRESSURE -
TRUCK & TRAILER
LF/RF PROTOCOLS**

4

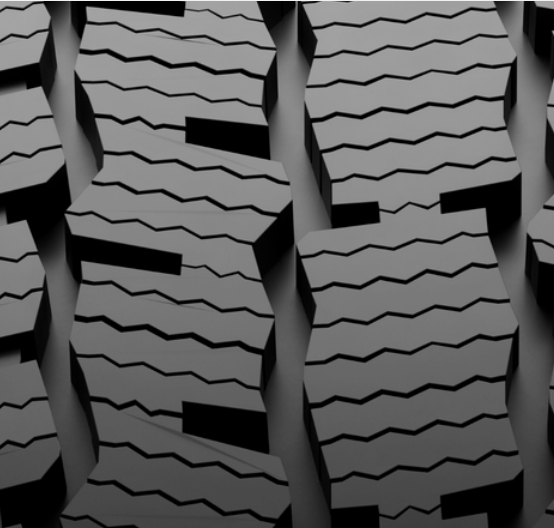
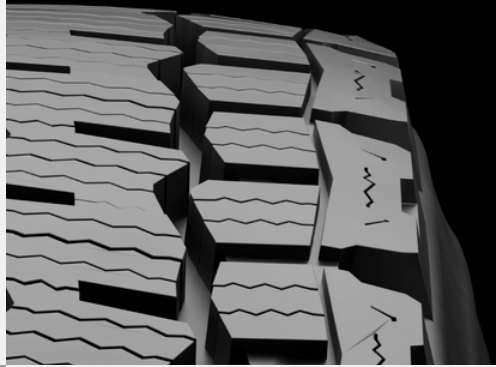
**OCR FOR TIRE DETAILS -
GPT TRAINED FOR TIRE
OCR**

5

**RFID FOR TIRE
IDENTIFICATION ANTENNA
INTEGRATION**

ALL SEASON

As a complete 3D digital model of each tire is made, the system works equally well for Summer, All-season and Winter tires.

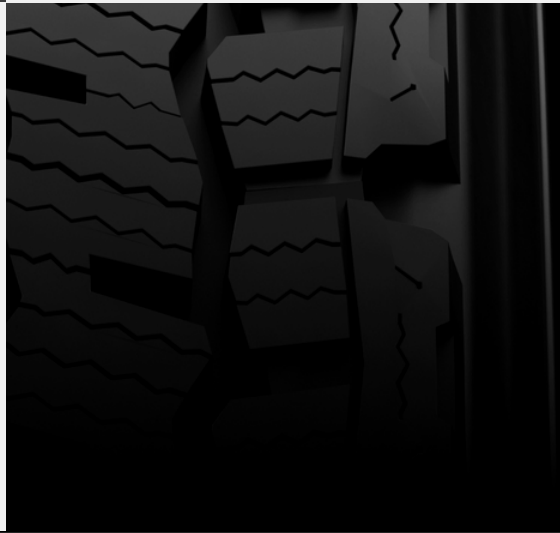


VARIOUS PATTERNS

The system is perfectly tuned to analysing the various patterns on commercial vehicle tires.

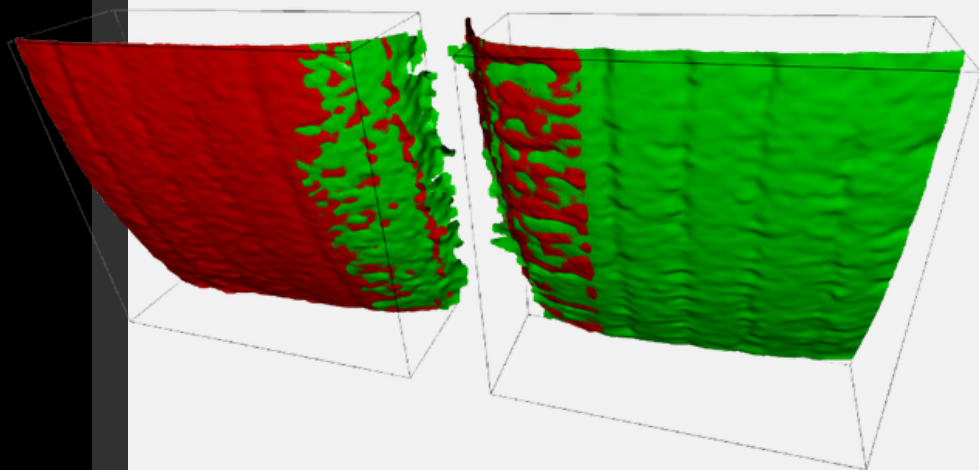
PRESICE MEASUREMENT

INSCAN is a precision measurement system that utilizes advanced 3D imaging technology for real-time analysis. It captures 3D images of objects and performs real-time analysis with an accuracy for 80 % of measurements within 0.2 mm.





TECHNICAL SPECIFICATIONS



DIMENSIONS	65mm x 1730 mm x 910 mm
ACCURACY	80% of measurements within 0.2mm
MAX LOAD PER AXLE	9 tonnes
OPERATING TEMPERATURE	0° C to 40 °C
OPTIMAL SPEED	< 5kph
VEHICLE IDENTIFICATION	Automatic recognition of license plate
CALIBRATION	Self calibrating via AI camera system

ENGINEERED FOR EVERY VEHICLE CLASS

PASSENGER CAR RADIAL



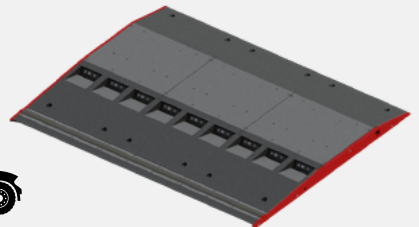
LIGHT COMMERCIAL VEHICLE



TRUCK & BUS RADIAL



SPECIALITY VEHICLES





PRECISE IN **MEASUREMENT**



The cameras are highly effective for capturing 3D images of objects and performing real-time analysis. Its real-time capabilities enable dynamic environments to be analyzed as they happen, making it ideal for applications like robotics, AR/VR, and autonomous systems. With its small size and affordability, the RealSense camera is accessible to various industries, providing a powerful tool for handling real-time data. It also supports object recognition and tracking, facilitating enhanced automation and decision-making processes.