



iSAVE

Continuous pavement friction measurement.

The **i**ntelligent **S**afety **A**ssessment **V**ehicle (iSAVE) is a critical tool for ensuring the safety of motorists in wet road conditions, by pinpointing areas of higher risk.

A major advancement in measuring skid resistance and inter-related road surface characteristics, the iSAVE provides a complete picture of road safety with all the data needed for comprehensive friction and safety evaluations.

This allows for a more targeted approach, where measurements are collected on high-demand locations, such as approaches to traffic signals and intersections, around tight curves, and where vehicles are typically required to brake, accelerate or maneuver at speed.

Along with skid resistance data, the system is fitted with sensors capable of collecting inter-related pavement safety measurements such as roughness, rutting, macrotexture, digital imagery and road geometry, with the Hawkeye Platform fully synchronizing all data streams.

Applications

- Determines skid resistance of a pavement surface by measuring the Sideway Force Coefficient (SFC), in both wheel paths.
- Assessment of inter-related pavement surface characteristics.
- Data can be cross-referenced with crash data to identify potentially high-risk friction areas.

Features

- Friction measurement in both wheel paths simultaneously.
- A dynamically controlled flow of water to apply a consistent water film to surface/tyre interface at all speeds.
- Split rim design enables rapid change of measuring test tyre.
- Efficient and accurate automated calibration routine.
- Hawkeye modular integration synchronizes all data acquisition sensors.
- Along with the collection of friction measurement, the iSAVe is fitted with sensors capable of collecting:
 - Roughness (IRI), Rutting and Macrotexture (SMTD and MPD).
 - Road and roadside imagery.
 - Geometry (crossfall, grade, horizontal and vertical curvature).
 - Inertially corrected spatial positioning and geometry.
- It is also fitted with the following additional features to minimize measurement variability:
 - Dynamic monitoring and adjustment of the vertical load.
 - Continuous tyre pressure monitoring and automated inflation system.
 - Dynamic speed-controlled water flow system.
 - Ambient air and pavement surface temperature monitoring.



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