We make highways talk™

The TACS™ Advantage

PROVEN PERFORMANCE – HIGH ACCURACY & RELIABILITY

TACS is an innovative tire safety screening solution for Commercial Vehicle Operations that provides:

- **Flat, Underinflated, Missing and Mismatched Tire Detection** – Based on tire footprint measurement, TACS effectively screens for out-of-service (OOS) criteria
- **Proven Performance** – Numerous state and international references can attest to the effectiveness of TACS
- **Proven Accuracy –** Nearly 100% of vehicles identified have verified tire anomalies that justify further inspection
- **Operator Interface** – Options include IRD Operator Display integration, Virtual Weigh Station (VWS) integration, or standalone software – all with detailed output for the user
- **Single/Dual/Wide-base Tire Detection** – Provides enhanced classification and compliance
- **Provides Identification of Specific Location of Tire Anomaly** – Graphical User Interface (GUI) indicates axle and tire location on dual (inside or outside)
- **Tire Positioning** – Off-scale detection for WIM System
- **Speed-Independent Screening** – Operates at all speed ranges – mainline, ramp, and stop and go
- **Web-Based Reporting System** – IRD's VI²M™ traffic data central repository and reporting software provides detailed reports on vehicles screened and tire anomalies identified

Steps in Verifying a New Safety Solution

1. Initial testing was carried out at MnROAD, a pavement test track operated by the Minnesota Department of Transportation
2. A study conducted in Denmark established that TACS outperformed other systems, including piezo quartz sensor-based systems, for vehicle classification based on tire configuration.
3. A pilot project in Oklahoma verified that tire footprint measurement was effective for tire safety screening
4. Illinois DOT/Illinois State Police adoption of TACS at four ports of entry demonstrated the effectiveness of TACS for statewide CVO e-screening

MnROAD Test Site for VectorSense™ Tire Sensors

TACS™ PROVEN PERFORMANCE

Current & Committed Installations

Going Statewide

Illinois is the first state to implement multi-site tire safety screening and more are following suit. Over the first eight months of TACS implementation, the Illinois State Police used the technology to detect over 5000 suspect trucks which were sent to report for further inspection. The success of the program led to additional sites being added. This project established TACS to be one of the most effective technologies for commercial vehicle safety screening, as the system provides accurate results that are verified by vehicle inspections and lead to placing unsafe vehicles out of service.

ITD Grant Eligibility

Core Compliant States are eligible to apply for Innovative Technology Deployment (ITD) grants for the addition of TACS to their screening operations. Early adopters of tire safety screening have relied on state funding to purchase TACS, but have now established the effectiveness of the technology as a desirable, even critical, component of advanced commercial vehicle enforcement sites.

European Experience

In addition to tire safety screening installations in the U.S., IRD has also installed several systems in Europe. TACS systems installed in the Netherlands detect tire anomalies including low air pressure and flat tires. When tire anomalies are identified, the transportation company is notified to make them aware so that they can take corrective action.

TACS Installation – Rotterdam, Netherlands

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ISO 9001 2015

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Find out more about IRD on our website: www.irdinc.com

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