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smoothroad.com

Inertial Profiler



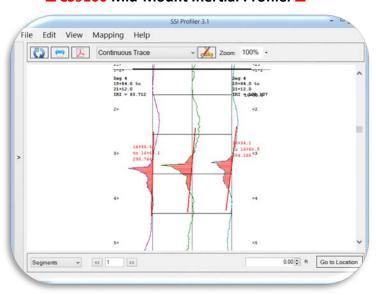
CS9300 Inertial Profiler



CS9100 Mid-Mount Inertial Profiler



🛕 GPS Tracking Thru Profile Data in SSI Profiler 3, Google Earth/Maps 🛕



🛕 IRI and Localized Roughness Displayed by Individual Track 🛕

Precise Surface Profile Measurement at Highway Speeds DOT Compliant QA/QC Testing on All Pavement Types



Profiling System Specifications

- Collect data up to 70 mph (112 kph)

Meets E950, AASH M328, R054, R056-057

- Meets or exceeds all Class I requirements of ASTM E950.
- 1 inch sampling interval at all collection speeds.
- Features LMI Technologies' new 5 kHz Gocator wide beam lasers for asphalt and concrete pavements.
- ±5g rated Accelerometers with 0.0001g accuracy.
- Proven ability to replicate wavelengths of ~0.25 feet (7.62mm) in excess of 760 feet (231.6 meters).
- All sensors and electronics removable for reuse on an SSI CS8700 lightweight profiling system.

Compliance and Equipment

- Complies with all commonly used agency specifications.
- Equipped with industrial grade sensors and connectors.
- Core electronics manufactured in an ISO 9001 facility.

TOUGHBOOK

rugged computer on all systems.

- Custom docking station mount for comfort and access.
- All systems run off of a 12 volt power supply

Operation, Training & Support

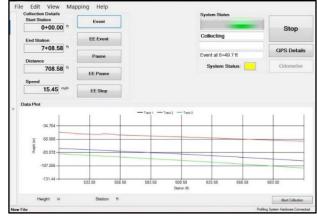
- One person operation. All in cab operation.
- Speed range: 1 inch sampling for all speeds (5-65 mph)
- Operating ambient temperature range: 32° to 110° F
- Moisture: profiling system components impervious to moisture (but quality of data degrades on wet pavement).
- Worldwide multi-lingual operator training available.
- Automatic software updates with SSI Profiler 3 12014
- In field replacement of portable, modular components.
- Warranty and rapid response customer support on all profiling system components and operations.
- **Options:** high resolution GPS (RTK corrected) with CAD output, HD camera, rut measurement, printer and more.

Best-In-Class Profiling System Software

- Windows 7/8/10 Professional software programs.
- Easy calibration instructions for bounce test, laser verification, accelerometer and distance calibrations.
- On screen visual aids and fast reporting of profile results.
- Google Earth, Google Maps Support for **MapPoint**

and Microsoft MapPoint

- Navigate to locations within profile data using real time
- GPS Tracker and navigational/mapping capabilities.
- User selectable parameters for English and Metric units.
- Real time data display of profile trace.
- Electric Eye data triggers on each side of system function at 30+ feet (10+ meters).
- User programmable keyboard shortcuts
- SSI "Continuous Collection" software suspends collection below 5 mph and resumes when speed exceeds 5 mph.
- Pause areas integrated into collection. View paused areas separately or exclude.
- Multiple Profile Indexes: **IRI** (International Roughness Index, Mean IRI (MRI), Half Car Ride Index (HRI), Profile Ride Index (PRI), Ride Number (RN).
- Multiple outputs for Areas of Localized Roughness: IRI based roughness based on user specified thresholds; Rolling Straightedge, Profilograph must-grind bump template, Texas 1001-S localized roughness,
- Raw data is rewritable: change parameters at any time.
- User defined filtering values for high and low pass filters.
- Patented multiple trace reporting capability.
- (PPF, ERD), Export data into Excel, CSV, PRO, CAD, Survey, and Text
- Data is encrypted for security.



▲ Computer Instructed Calibration and Data Collection Routines ▲



▲ Gocator Wide Footprint Laser ▲



▲ In-Cab Touchscreen Computer ▲

SURFACE SYSTEMS & INSTRUMENTS, INC.

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