CS8700 Lightweight Profiling System

- Polaris Ranger 570EFI Premium Vehicle
- Trace Report Details for Each Wheel Path
- Real Time Map View of Profile & Localized Roughness
- Wide Beam Gocator Laser
**Profiling System Specifications**

- **Polaris Ranger 570** vehicle collects data up to 50 mph
- Meets E950, M328, R054, R056-057.
- Meets or exceeds the Class I requirements of ASTM E950.
- 1 inch sampling interval at all collection speeds.
- Embedded distance encoder mounted on drive shaft.
- Features LMI Technologies’ new 5 kHz Gocator wide beam lasers for asphalt and concrete pavements.
- ±5g rated Accelerometers. 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 use on an SSI CS9100 or CS9300 high speed vehicle mount.

**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.
- 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 (5-50 mph)
- Operating ambient temperature range: 32° to 110° F
- Operating temperature range 0° to 140° 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 2016
- 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 Professional software programs.
- Easy to follow calibration instructions for bounce test, height verifications, accelerometer and distance calibrations.
- On screen visual aids and fast reporting of profile characteristics.
- Compatible with Google Earth, Maps, and ArcGIS
- 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 when speed is less than 5 mph. Collection resumes when speed exceeds 5 mph (8 kph).
- Pause areas integrated into collection. View paused areas separately or exclude.
- Multiple outputs for Profile Indexes: International Roughness Index (IRI), Mean IRI (MRI), Half Car Ride Index (HRI), Profile Ride Index (PRI), Ride Number (RN).
- Multiple outputs for 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.
- Export data into (PPF, ERD), PDF, Excel, CSV, PRO, CAD, Survey, and Text
- Data is encrypted for security.

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Direct Connectors:

**Immediate Results with Full Featured Software**