

**NEW!**

# RoadProfiler

## ***Cost Effective Portable Profiling Solution***

Roadware's new ARAN® profiler platform, code-named *RoadProfiler*, is perfect for profiling projects which require a cost-effective, flexible, and rapidly-deployed solution.

*RoadProfiler* uses best-of-breed technology; including industry-standard Selcom Lasers and a new, fully-redesigned, ARAN operating system built on the the Window's .NET 3.0 platform, for use with Windows XP and Windows Vista.

As per all ARAN equipment, the new *RoadProfiler* solution is fully backed by a one year parts and labor warranty and is supported worldwide by a team of fulltime service technicians to ensure your uptime.

The first release of this new technology focuses on the needs of the longitudinal and transverse profiling community, and is designed to offer fast and easy self-installation and minimal weight for easy shipping and handling.

With *RoadProfiler*, the need for supplemental power supply and cooling capabilities are eliminated. The system is powered directly by the mounting-vehicle factory charging system, and is passively cooled.

*RoadProfiler* gives rugged reliability for use in both urban and rural applications, as well as on both new roads and heavily-distressed roads.



*Pictured here: ARAN RoadProfiler*

### **Features**

- Meets ASTM E950-98, AASHTO PP 38-00, AASHTO PP 49-03
- Measures roughness (IRI) and rutting (3 point or greater)
- Output to database file or ERD file format for ProVAL
- Operates at speeds between 12.5 and 70 mph
- Fully laptop-based control for calibration, system diagnostics, data collection and data processing/reporting
- Installs, calibrates and is ready for use in as little as 3 hours
- Adjustable wheelpath measurement width; ranges between 55 and 83 inches

## CONFIGURATION OPTIONS

- Single wheelpath roughness measurement
- Dual wheelpath roughness measurement
- Dual wheelpath roughness measurement with multi-point rutting (3 point - 1,280 point)
- Dual wheelpath roughness measurement with texture

## SYSTEM COMPONENTS

- Core hardware and software system
  - DMI and universal wheel adapter plate
  - RoadProfiler core operating software (for setup, calibration, diagnostics, data collection and data output in database or ERD file output)
  - Front operator station (Professional-grade laptop pedestal, power inverter and trackball to operate the RoadProfiler using a customer-supplied laptop)
- Measurement electronics including Selcom lasers, accelerometers, etc. (according to configuration selected)
- Instrument enclosure
- Rugged shipping/storage container
- Optional hitch-mount adapter
- Optional Roadware-supplied laptop

## CONFORMS TO

- AASHTO PP 38-00
- AASHTO PP 49-03
- AASHTO PP 50-03
- AASHTO MP 11
- ASTM E950-98
- ASTM E1705/E1705M



*Pictured here: RoadProfiler software screen shot*

## MEASURES, RECORDS, OUTPUTS

- Longitudinal road profile elevations
- IRI (international roughness index)
- HRI (half-car roughness index)
- RN (ride number)
- Rutting (three point or greater)
- Vehicle velocity and distance traveled
- ERD file format for ProVAL



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