



## ARAN RoadProfiler to be Unveiled at RPUG

The quality and best-of-breed technology that you have come to expect from the ARAN brand, and Roadware, is now also available in a compact, cost-effective, and quickly-deployed format.

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

**RoadProfiler** utilizes best-of-breed technology including industry-standard Selcom Lasers and a robust software architecture based on the Windows .NET 3.0 foundation.

As per all ARAN equipment, the new **RoadProfiler** solution is fully backed by a full 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 has been designed with the goals of:

- Fast and easy self-installation,
- Minimal weight for easy shipping and handling,
- Eliminating the need for supplemental power supply, as it is powered directly by the mounting-vehicle factory charging system,
- Eliminating the need for supplemental cooling, as it is passively cooled,
- Rugged reliability for use in both urban and rural applications as well as on both new roads and heavily-distressed roads.



## System Description and Components

- Installs, calibrates and is ready for use in as little as 3 hours

- Fully laptop-based control for calibration, system diagnostics, data collection and data processing/reporting
- Complete kit includes
  - Measurement instrument enclosure with hitch mount adaptor
  - Measurement electronics including Selcom lasers, accelerometers, signal conditioning electronics, etc. (according to configuration selected)
  - P4 Laptop running Windows Vista with a professional-grade vehicle laptop mount
  - Distance Measurement Instrument (DMI) and universal wheel adaptor plate
  - Ethernet connection kit
  - Rugged shipping/storage container
  - Self-guided installation with manual and DVD movie

### **Capabilities and Specifications**

- Can be mounted on any vehicle; either via the hitch-mount connection or as a permanent install
- Operates at speeds between 0 and 70 mph and has "stop-and-go" measurement capability so that reliable roughness measurement may be made even in high traffic and/or urban settings
- Conforms to:
  - AASHTO PP 38-00
  - AASHTO PP 49-03
  - AASHTO PP 50-03
  - AASHTO MP 11
  - ASTM E950-94
  - ASTM E1705/E1705M
- Adjustable wheelpath measurement width; ranges between 55 and 83 inches
- Measures, records and outputs:
  - Longitudinal road profile elevations
  - IRI (international roughness index)
  - HRI (half-car roughness index)
  - RN (ride number)
  - Rutting (three point)
  - Vehicle velocity and distance traveled
  - ERD file format for ProVAL

### **Configuration Options**

- Single wheelpath roughness measurement
- Dual wheelpath roughness measurement
- Three-point rutting / dual wheelpath roughness measurement

See us at the [2007 RPUG Meeting](#) for more information on the ARAN RoadProfiler, or [other conferences](#), or contact us at [info@roadware.com](mailto:info@roadware.com).

Stay tuned for the next release of the **RoadProfiler** solution...

Bonnie Collins

Editor

To download copies of previous Roadware newsletters visit our [Newsletter Archive](#).

A graphic advertisement for Roadware. The left side is a dark, textured background with white text. The right side is a solid orange background with white text. The text on the left reads: "Roadware is the world's leading provider of data collection equipment and services for the roadway management sector". The text on the right is under the heading "Products and services include:" and lists: "Automated data collection and analysis services" with two sub-points: "for asset management applications" and "for pavement management applications", and "ARAN automated data collection equipment".

**Roadware is the world's leading provider of data collection equipment and services for the roadway management sector**

**Products and services include:**

- Automated data collection and analysis services
  - for asset management applications
  - for pavement management applications
- ARAN automated data collection equipment

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