

STOP & GO PROFILER



The Stop & Go Profiler is designed to be used in situations that require smoothness data to be collected in live traffic situations where the operator must start and stop the vehicle without affecting the accuracy of the data. Our exclusive sensor technology removes the vehicle dynamics from the profile data allowing for accurate smoothness measurements and IRI calculations in these urban situations. Any Model 8300 Profiler can be upgraded to the Stop & Go Profiler option.

STOP & GO

LATEST TECHNOLOGY FROM AMES

SPECS:

SYSTEM OVERVIEW

- Stop & Go Profiler attaches to the front of most vehicles using tow bar base plate brackets.
- Data collection is powered by Ames 6.1 software, which is compatible with Microsoft Windows 7 and later operating systems.
- GPS receiver allows the profile data to be referenced to the GPS location and the IRI profile on Google Earth.
- Uses GPS coordinates to establish start, stop, and ignore locations.
- **Comprehensive** – Changes in speed does not affect profile data accuracy. 0-70 mph speed range. No need for lead in/out sections.
- **Proven** – Independently tested and certified by state DOT agencies. Changing speed does not affect the accuracy of the smoothness measurement and IRI calculation.
- **Powerful** – The Stop & Go Profiler can be retrofitted onto any Model 8300 High-Speed Profiler. Installs onto host vehicle using standard tow hitch mounting hardware.
- **Innovative** – The first profiling system that does not require the use of a wheel encoder, cones, or external markings to start/stop data collection.

SPECIFICATIONS:

- High-Speed system can be on front or rear mounted using the vehicle's standard 2" hitch receiver
- Single or dual wheel track systems available
- Uses LMI GoCator laser line sensors or single point laser sensors
- Frame is adjustable to accommodate different vehicles
- Capable of collecting measurements at speeds up to 70 mph
- Laser height sensor has a range of eight inches
- Horizontal distance measured with an optical encoder or GPS receiver

- Pavement elevation sample storage: software selectable 1-16 samples/foot
- Profile wavelength range: 0.5 to 6,400 feet
- Accelerometer resolution: 0.0001g
- Data storage: 70,000+ miles

COMPUTER HARDWARE:

- Panasonic Toughbook laptop
- Anti-reflective, anti-glare, IPS, sunlight-readable touchscreen display
- Ethernet connectivity from system devices to data acquisition unit and laptop

COMPUTER SOFTWARE:

- Microsoft Windows operating system
- Displays profile in real time while data is being collected
- Calculates Profile Index (PI), International Roughness Index (IRI), Half-car Roughness Index (HRI), Ride Quality Index (RQI), and Ride Number (RN)

- Plots true profile, California profilograph profile, and rolling straightedge profile
- Equipped with variable high and low pass filter options
- Contains automatic bump detection software
- Identifies location of "out-of-specification" bumps and dips and areas of localized roughness
- Equipped with the following export file options: profile elevation points, ProVal PPF, Texas PRO format, comma separated variable (CSV) format and generated report tables format (HTML), Google Earth KML

