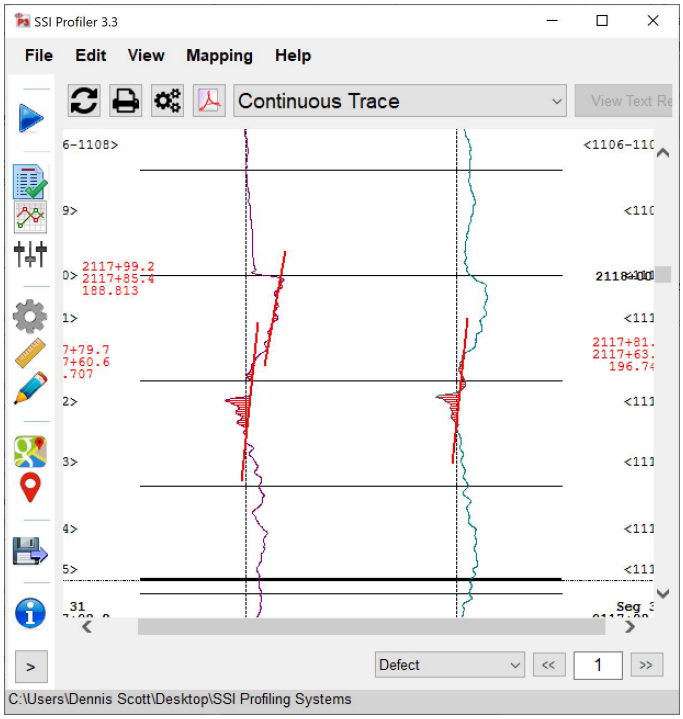
SURFACE SYSTEMS & INSTRUMENTS, INC.

California	Kansas
1845 Industrial Drive	307 Plymate
Auburn, California 95603	Manhattan, Kansas 66502
Telephone: (415) 383-0570	Telephone: (785) 539-6305
Facsimile: (415) 358-4340	Facsimile: (785) 539-6210

smoothroad.com

Custom Test Equipment • Mobile Technology Solutions

CS8600 Ultralight Profiler



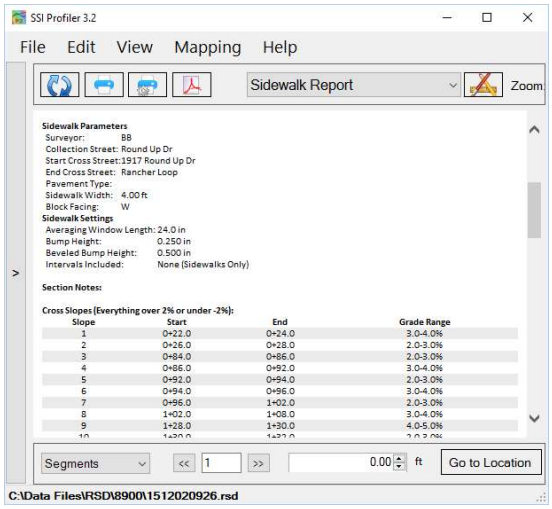
▲Sidewalk Condition Assessment for ADA Accessibility ▲
▲Reports Cross-Slope Running Grade and Panel Evenness▲
▲Compatible with GPS/GIS Applications▲

▲ T3MOTION® Patroller Vehicle Platform ▲
▲Zero Emissions • Hot Swappable Batteries▲

Automated System for Measuring Sidewalk ADA Access Condition

▲HD Camera with Georeferenced Images▲

▲Rugged Computer▲

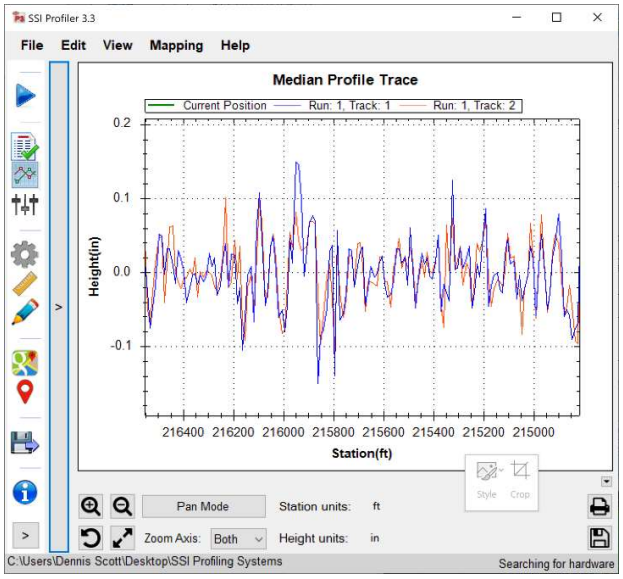


▲Easy, Feature Rich Windows Software▲

CS8600 Ultralight Surface Profiling System

HARDWARE FEATURES	SOFTWARE FEATURES
• T3MOTION Patroller host vehicle (zero emissions). •Hot swappable batteries. •Lightweight (400lbs/157.8kg) •Zero degree turning radius. •Collect data from 5-15 mph (8-24 kph) without zero-speed option.	• Windows 10 Professional operating system. •Assistive software eases calibration, data collection and analysis. •Real time diagnostics monitor system health.
Meets ASTM E950 (Class 1) and AASHTO THE VOICE OF TRANSPORTATION specifications. •Inertial profiler with ± 5g accelerometers (0.0001g accuracy). •1-inch (25mm) data sampling interval (adjustable). •Distance resolution: 0.13 mm/sample.	•Real time profile trace with interactive collection software •Instant test results and reports. •Optional automated ADA Access sidewalk testing: running grade, cross-slope, evenness, WPRI (Wheelchair Pathway Roughness Index).
• 32kHz single point Class 3B lasers. •Optional 5 kHz wide-beam lasers reduce impact of tines, grooves or coarse textures on ride values and localized roughness.	•Fully integrated software for viewing and reporting surface condition criteria, images, position, local tagged events, and more. •Adjustable templates for reporting under varying specifications.
• TOUGHBOOK rugged computer with touchscreen. •Computer is removable for off-vehicle use. •Core components embedded in Segway vehicle; no exposed parts.	•Configurable settings for reporting minimum/maximum thresholds for cross-slope, running slope, level changes and measured sidewalk cracks. •Multiple data exports for consolidated reporting and use with third party software applications.
•Zero speed option to collect data from 0 to vehicle maximum. •Camera option with geo-reference images and playback viewer.	•Support for Google Earth Google Earth/Maps and ESRI ArcGIS •Encrypted raw data for security and end user re-analysis.
•GPS subsystem with positions merged with profile data for feature tagging, navigation along trace, and Google Earth/Maps support. •Optional RTK corrected GPS or Total Stations surveying integration with 3D data formats for design and machine control applications.	•Automatic software updates with SSI Profiler 3 •Software licensed for use on desktop and additional computers.
•Guaranteed compliance with agency specifications. •Buy or Rent (with or without operator).	•Export data into PROVAL (PPF, ERD), PDF, Excel, CSV, PRO, CAD, Survey, GPS/GIS and Text.

Industry Leading Profiling System Software (Windows 10):



• **Computer Instructed Calibration and Collection Routines** •
• **Real-Time Display of Profile and IRI** • **Tag Events During Collection** •

• **Zoom/Pan Through Surface Data** •
• **Real Time GPS Navigation Along Trace** •

SURFACE SYSTEMS & INSTRUMENTS, INC.

California
1845 Industrial Drive, Auburn, California 94941
Tel: (415) 383-0570 • Fax: (415) 358-4340
smoothroad.com

Kansas
307 Plymate, Manhattan, Kansas 66502
Tel: (785) 539-6305 • Fax: (415) 358-4340
info@smoothroad.com