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**SURFACE SYSTEMS & INSTRUMENTS, INC.**

Custom Test Equipment • Mobile Technology Solutions

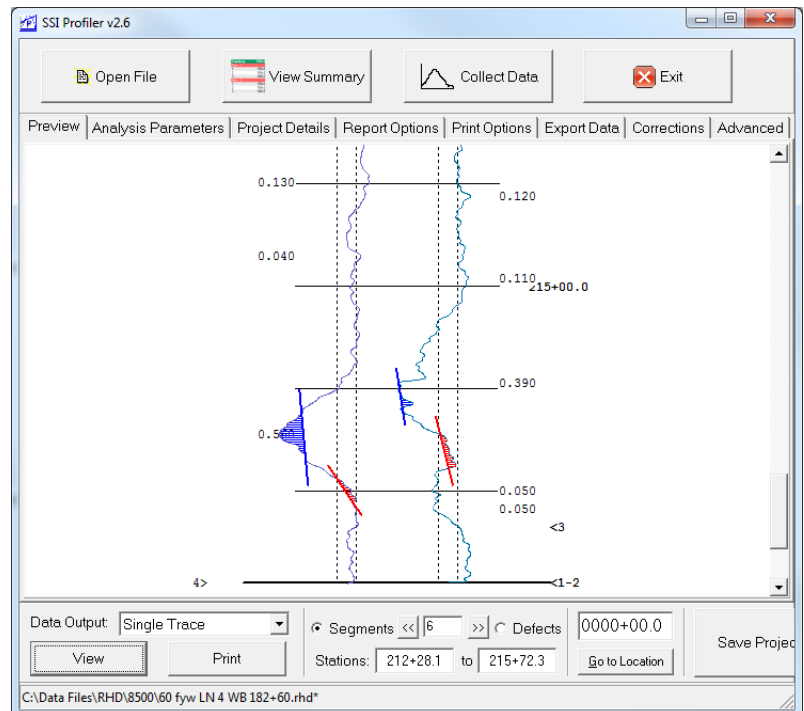
[www.smoothroad.com](http://www.smoothroad.com)

# CS8550 BRIDGE PROFILOGRAPH



▲ California-Style Computerized Profilograph for Bridge Testing ▲ .

- Windows Software for Automated System Calibration, Data Collection and Analysis.
- Instantly Generates Bridge Profile Index and Precise Dimensions of Localized Roughness
- System Collects in Either Direction; Displays Dual Wheel Paths with Results Averaged.
- Rugged Computer with Touch Screen Controls.
- Buy or Rent (trained operator available).
- Guaranteed Compliance with DOT Agency Specifications and Test Methods (Including California DOT Test Method 547).
- Custom 12' Frame Transports in Pickup Truck or Optional Cargo Trailer



▲ On-Screen View of Patented Dual Wheel Path Profile Trace ▲

HARDWARE FEATURES	SOFTWARE FEATURES
<ul style="list-style-type: none"> <li>• Custom single piece frame (12 foot/3.66 meter) for profilograph testing under bridge specifications (including CalTrans Test 547).</li> <li>• Guaranteed compliance with agency and contract requirements.</li> <li>• Professionally engineered hardware refined over 50 years.</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to learn, easy to use Windows software programs.</li> <li>• Computer instructed calibration and data collection routines.</li> <li>• Feature rich, mature data analysis software.</li> </ul>
<ul style="list-style-type: none"> <li>• Lightweight and modular for one-person assembly and operation.</li> <li>• Aluminum frame and support wheels assemble in minutes.</li> <li>• Portable operator control housing with AC/DC power supplies.</li> </ul>	<ul style="list-style-type: none"> <li>• Collect dual wheel paths from either direction or any starting point.</li> <li>• Dual wheel paths test results on one trace with results averaged.</li> <li>• Two trace reports allow assessment of profile across lane.</li> </ul>
<ul style="list-style-type: none"> <li>• Transports in back of pickup truck or optional enclosed trailer.</li> <li>• Bi-directional frame operation to test adjacent wheel path without device turn-around).</li> </ul>	<ul style="list-style-type: none"> <li>• English or Metric data collection and reporting.</li> <li>• Display of test results, stationing, and profile trace during collection.</li> </ul>
<ul style="list-style-type: none"> <li>• Panasonic Toughbook computer with Touchscreen controls.</li> <li>• Toughbook computer is Mil-Spec (&lt;1.5% annual failure rate).</li> <li>• Lightweight generator for AC power. • Optional DC battery.</li> </ul>	<ul style="list-style-type: none"> <li>• Must-grind bumps/dips display in real time with audible alarm.</li> <li>• Customized localized roughness reports display dimensions and peak magnitude for each bump and dip.</li> </ul>
<ul style="list-style-type: none"> <li>• GPS subsystem displays of GPS position, integrates coordinates with profile stations, localized roughness, and Google Earth.</li> </ul>	<ul style="list-style-type: none"> <li>• Profile reports and traces on-screen, in PDF images, or hard copy.</li> <li>• Raw data exports to multiple formats (Excel, ERD/PPF for ProVal).</li> </ul>
<ul style="list-style-type: none"> <li>• Adjustable steering hardware for ease of operation.</li> <li>• Reversible brake for parking frame on sloped surfaces.</li> <li>• Optional enclosed cargo trailer with engineered hardware for secure storage and transit of CS8550 system.</li> </ul>	<ul style="list-style-type: none"> <li>• Raw profile data encrypted for maximum security.</li> <li>• Profile data infinitely re-writable with different parameters.</li> <li>• Parameters adjust comply with agency specifications for bridge surface profile testing.</li> </ul>
<ul style="list-style-type: none"> <li>• All major spare parts stocked and available by expedited delivery.</li> <li>• Warranty on all individual and integrated system components.</li> </ul>	<ul style="list-style-type: none"> <li>• Add new data to existing profile data files for comparison of original and corrected surfaces. • Track ride improvement throughout project.</li> </ul>
<ul style="list-style-type: none"> <li>• Optional on-board printer for field printing traces and reports with power assisted paper take-up for auto-scrolling of profile traces.</li> </ul>	<ul style="list-style-type: none"> <li>• Software license for field and desktop computers.</li> <li>• On-site operator training and certifications available worldwide.</li> </ul>
<ul style="list-style-type: none"> <li>• Road profilograph configuration available (complies with ASTM E-1274, FAA, USACE and DOT specifications; e.g. CalTrans Test 526).</li> <li>• Buy or Rent (equipment only or with trained operator).</li> </ul>	<ul style="list-style-type: none"> <li>• Software updates by internet download (self-extracting).</li> <li>• Worldwide customer support.</li> </ul>



▲ Detachable Field Housing with AC/DC Power Supplies ▲



▲ Toughbook 19 Rugged Computer with Touchscreen ▲

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