

California

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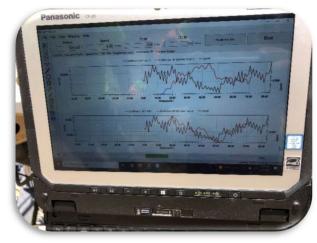
Custom Test Equipment • Mobile Technology Solutions • FF/FL • ADA Compliance • Road Profilers • Survey Scanning

CS7800 DYNAMIC SURFACE PROFILER

For Asphalt and Concrete Pavers



▲ Installs on Pavement Lay-Down Equipment for Real Time Smoothness Testing ▲







CS7800 Dynamic Surface Profiler

HARDWARE FE	ATURES	SOFTWARE FEATURES				
 Built for asphalt or concrete pavers. Adjustable sampling interval (default of equivalent to ASTM E950 Class I profilior Multiple track configurations availables. 	ng device).	 Real time display of profile, speed, ride values, areas of localized roughness, PSD (power spectral density) and GPS. Multiple profile statistics supported (e.g. IRI, PRI, RN, and RMS). 				
 Modular, portable design. Sensors ad flexibility in configuring system on mult Core components field installable; sto 	iple machines.	 Feature rich Windows software programs for calibration, data collection and analysis. Output formats include ProVal (ERD/ PPF), PDF, Excel, 3D survey (PNEZD, PLLHD, GPGGA), raw profile, and simulated profilograph. 				
 Professionally engineered, durable ha Profile measurement by proprietary la Distance measurement using 5th whee Optional wide beam lasers for height in the profile and the profile and	sser/inclinometer platform. el or GPS DMI. measurements.	 •Multiple trace reporting allows cross-surface analysis of parallel profile traces. •Append data to existing files for continuous profile measurement. •On-Screen user's manual and instructions for profiling software. 				
 Transfer data to inertial profiler or GP. GPS accuracy options from 2.3 ft (.7 m GPS correlated with project stations; r Google Earth/Maps integration. 	to \sim 0.8" (2 cm) GPS to RTK. real time trace navigation and	 Profile reports and traces available on-screen, PDF, Excel, or electronic format (for email or desktop computers). Colorized traces and highlights of bonus/penalty profile areas. Encrypted raw data for reanalysis with variable parameters. 				
 Powered by host machine's 12-48V po Toughbook military specification compand daylight readable Touchscreen con Buy or Rent. On-site assistance with 	outer with static hard drive trols.	Automatic software updates via internet. Real time diagnostics monitor system health and ease support.				
Optional 3D elevations (RTK GPS or To Coming soon: thermal imaging option	tal Stations).	Configurable analysis parameters (English or Metric units, profile indexes, filters, localized roughness, etc.). Software license for use on other computers. Configurable analysis parameters (English or Metric units, profile indexes, filters, localized roughness, etc.).				
D : Cl ::: /D ::						
Device Classification/RatingTest Results and Data Outputs	 ASTM E950 Class I equivalent. World Bank Standard—Class 1 profiling device. IRI, HRI, PRI, RQI, RN, CA Bridge, Variable localized roughness templates. PDF, Excel, ERD/PPF and raw strip trace formats. 					
Localized Roughness	•Dimensions of bumps/dips measured with maximum amplitude of peaks and troughs calculated Configurable template for reporting localized roughness as IRI, profilograph, straightedge, or DOT specific methods.					
Measurement Units	•English/Metric (variable, re-writeable).					
Operating Speed	•0.0–Maximum speed of any paver.					
Sampling Interval	•Default = 1 inch (25.4 mm). Alternate sampling intervals configurable.					
Profile Accuracy	•0.381 mm (±0.015 inch) per 45.7 meters (50 yards).					
•Height Measurement Precision •Grade Measurement Resolution	•±0.056mm (0.002 -inches) •1 in 4.7 or 12 degrees.					
Longitudinal (Distance) Resolution	•+/- 0.025% (via 5 th wheel or GPS DMI).					
Power Supply	•12 volt power supply from host machine.					
• Weight	•~20 lb (9 kg) assembly					
• Dimensions	•34.5" (L) x 18.0" (W) x 12" (H).					
 Environmental 	•Operating Temperature (PCC): 32 -140°F (-0 to 60°C). Storage: -50-170°F (-30-75°C).					
Data Collection Electronics	•SSI proprietary embedded microprocessor based electronics architecture (ISO 9001 built).					
Operator Computer	Panasonic Toughbook military specification notebook PC with touchscreen controls.					
Operating System	 MS Windows 7/8/10 Pro operating system. Custom Windows software for calibration, data collection and feature rich data analysis. 					
Data Storage	•Typical notebook hard drive (250-5000GB) stores >200,000 miles (320,000 km) of profile data. Raw data files are transferable through portable storage media or email.					
Data Formats	•Raw data encrypted. Export routines supplied for ProVal (ERD/PPF) CAD, PDF and Excel.					

^{*}Specifications subject to change.

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• Options:

Sur	face S	Systems	&	Inst	trum	en	ts,	lnc.

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Kansas

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•3D Survey (RTK or Total Stations). •Multiple track systems •Texture •Cross-slope.