CS9350 Profiler for Surveying and Smoothness Testing

Optimize Surface Design Using Profile and Slope Data

Variable Depth Mill & Paver Control for Smoothness

2D/3D Mobile Surveyor & Profile Optimization Software
Survey, Design, Pave & Test for Smoothness

- Quickly Collect Dense Surface Scans
- In-Vehicle Rugged Computer
- Certified Profiler for DOT Smoothness Testing
## HARDWARE FEATURES

- Quickly generate dense, open area 2D or 3D surfaces.
- Highest resolution pavement scan using unique merger or inertial profiler, tactical grade IMU and corrected GPS data sets.
- Tighter, more accurate data than RTK survey instruments alone.

## SOFTWARE FEATURES

- Inertial profiling system data combined with slope for 2D survey and corrected GPS for 3D survey.
- Dense surface data for better designs.
- Create a design file with 2D or 3D survey data in conventional survey formats, but with higher resolution.

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<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<td>Multiple configurations available; examples:</td>
<td>- 2-paths profile and cross-slope outputs 2D relative profile.</td>
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<td>Choice of vehicle platforms:</td>
<td>- 3 paths profile with cross-slope and RTK GPS for 3D Topo.</td>
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<td>One setup for multiple passes, slopes, and lanes.</td>
<td>- High speed system attaches to front or rear of host vehicle.</td>
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<td>Corrected GPS with RTK post processing (base optional).</td>
<td>- Lightweight configuration on Polaris Ranger 570 EFI.</td>
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<td>Works with grade control systems (e.g. PaveSmart) for milling, paving or grinding machines.</td>
<td>- Interface with external GPS devices to use existing hardware.</td>
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<td>DOT compliant inertial profiler for QA/QC smoothness testing.</td>
<td>- Separate or combined data formats: profile only, slope only, GPS only, or integrated 2D/3D survey data.</td>
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<td>Profiling system complies with AASHTO/ASTM standards.</td>
<td>- Multiple export formats: PNEZD, PLLHD, Excel, CSV, ERD/PPF &amp; PDF.</td>
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<td>Detachable hardware.</td>
<td>- Easy software for calibration, collection and analysis of data on a Touchscreen Toughbook with Windows 7/8/10 Pro.</td>
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<td>Panasonic Toughbook rugged operator interface computer.</td>
<td>- On-the-Fly adjustments to design data and ongoing machine control.</td>
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<td>Reusable shipping/storage container.</td>
<td>- Precisely calculate areas of localized roughness for correct ions or bonus/penalty results.</td>
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| Portable configuration for use of hardware on different machines. | - On-screen GPS navigation along profile data.

## SURFACE SYSTEMS & INSTRUMENTS, INC.

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**Generate Rich 2D/3D Survey Data** • **Compatible with CAD Software & Machine Control Systems**

**Profiling System Data for QA/QC Ride Quality Testing** • Guaranteed to Meet DOT Agency Specifications and Test Methods.