



California

501 Park Way
Mill Valley, California 94941
Telephone: (415) 781-6080
Facsimile: (415) 358-4340

Kansas

307 Plymate Lane
Manhattan, Kansas 66502
Telephone: (785) 539-6305
Facsimile: (415) 358-4340

SURFACE SYSTEMS & INSTRUMENTS, LLC

Custom Test Equipment • Mobile Technology Solutions

www.smoothroad.com

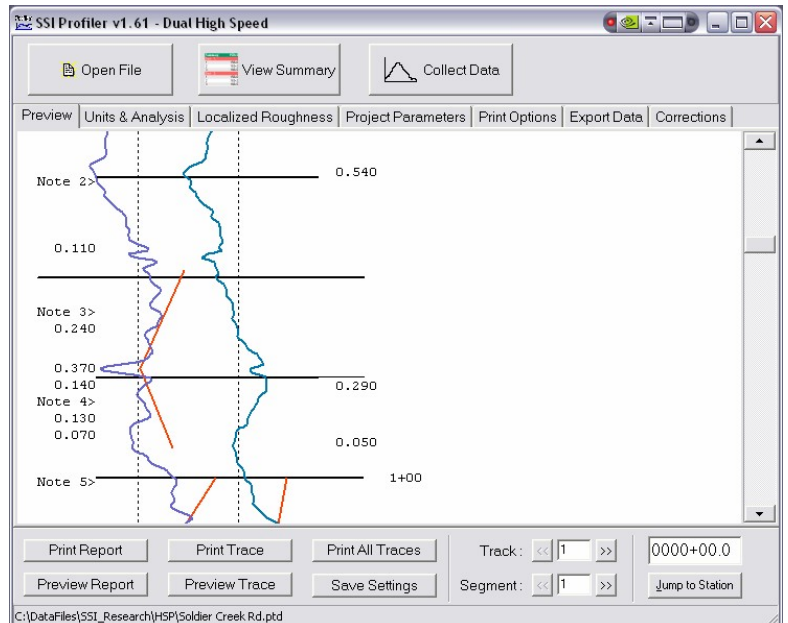
BRIDGE PROFILOGRAPH



▲ California-Style Computerized Profilograph for Bridge Testing-

- **Windows Software for Automated Data Collection and Analysis.**
- **Real Time Display of Bridge Roughness Index and Dimensions of Localized Roughness**
- **System Collects in Either Direction; Displays Dual Wheel Paths with Results Averaged.**
- **Custom 12' Frame Transports in Pickup Truck or Optional Cargo Trailer.**
- **Buy or Rent.**
- **Guaranteed Compliance with DOT Agency Specifications and Test Methods (Including California DOT Test Method 547).**

▼ ON-SCREEN VIEWING OF DUAL WHEEL PATHS ▼



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



| HARDWARE FEATURES | SOFTWARE FEATURES |
|---|--|
| <ul style="list-style-type: none"> • Bi-directional frame operation with reversible steering (no need to turn machine around for collection of data for adjacent wheel paths). • Reversible frame movement reduces operator time and labor costs. | <ul style="list-style-type: none"> • Dual wheel paths on one report--patented by SSI (cuts reports by 50%). • Two trace reports allow transverse profile assessment. • Toughbook Touchscreen controls and Windows software ease training and daily operation. |
| <ul style="list-style-type: none"> • 12' frame length for profilograph testing under DOT agency bridge specifications (including CalTrans Test 547). • Professionally engineered frame built by James Cox & Sons. • System transports in back of pick-up truck or in optional cargo trailer. | <ul style="list-style-type: none"> • Instant creation of PDF images of profile traces and reports. • One-touch export of profile data to custom Excel spreadsheets. • On-screen instructions for calibration, data collection and analysis. |
| <ul style="list-style-type: none"> • Military specification Toughbook computer with Touchscreen controls reduces risk of computer hardware damage or failures. • Rugged Toughbook can be used in field, vehicle or office. | <ul style="list-style-type: none"> • Real-time, on-screen display of physical stations, profile trace and PRI index values. • Real time audible for localized roughness and display of actual bump/dip dimensions. |
| <ul style="list-style-type: none"> • Ruggedized operator housing for computer and printer. • Housing usable in office for viewing/printing profile traces and reports. • Optional GPS subsystem integrated with profile data stations. | <ul style="list-style-type: none"> • Windows 2000/XP operating system with simple user interface software--easy to learn and operate. • Raw profile data encrypted for maximum security.. |
| <ul style="list-style-type: none"> • On-board ruggedized thermal printer quickly prints traces and reports. • Power assisted paper take-up for automatic rolling of long profile traces. | <ul style="list-style-type: none"> • User-adjustable data acquisition parameters (e.g. English or Metric, direction of stations, blanking band, bumps, dips and project information). • Raw data re-writable for repeat analysis. |
| <ul style="list-style-type: none"> • One-person assembly and operation. • Variable power supplies (gas engine generator provided and optional battery back-up). | <ul style="list-style-type: none"> • Profile reports and traces available on-screen, in hard copy, or in electronic format (easily transferred via email or disk). • View and print test results in the field or on desktop computers. |
| <ul style="list-style-type: none"> • Guaranteed compliance with DOT specifications and test methods. • Adaptable to any agency specification. | <ul style="list-style-type: none"> • Data translation routine for use of profile data in spreadsheets. Eases presentation of project level ride specification results and computation of incentive/disincentive outcome. |
| <ul style="list-style-type: none"> • On-site operator training provided. • Full service customer support—telephone, email and on-site. | <ul style="list-style-type: none"> • Add new data to existing data files for comparison of original and corrected surfaces. • Track percentage of improvement and profile changes throughout project stages. |
| <ul style="list-style-type: none"> • Spare parts available overnight. • Warranty (extendable) provided on all individual and integrated system components. | <ul style="list-style-type: none"> • Computer compatible with other construction project software and office applications. |
| <ul style="list-style-type: none"> • Optional GPS sub-system with latitude/longitude data correlated to profilograph stations. | <ul style="list-style-type: none"> • Software updates by self-executing internet download. |



Detachable Field Housing Works in Field or Office



Mil-Spec Rugged Computer with Touchscreen

For more information or a quotation, contact:

Surface Systems & Instruments, LLC

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