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SURFACE SYSTEMS & INSTRUMENTS, INC.smoothroad.com

• Custom Test Equipment • Mobile Technology Solutions • FF/FL • Road Profilers • Panasonic Toughbooks

CS1100 GPS-DMI

Distance Measurement Systems



▲ Simple Touchscreen Operation ▲ Multiple Settings and Units ▲

GPS Based Precision Distance Measurement

| Feature | CS1100 (Basic) | CS1125 (Advanced)* | CS1150 (Pro)* |
|------------------------------------|----------------|--------------------|---------------|
| 10Hz, 0.7m GPS with Corrections | ✓ | ✓ | ✓ |
| External Mag Antenna | ✓ | ✓ | ✓ |
| Vehicle 12V Power Supply | ✓ | ✓ | ✓ |
| 5" Touchscreen | ✓ | ✓ | |
| Vehicle OBD-II Integration | | ✓ | ✓ |
| Profiler Wheel Encoder Replacement | | ✓ | ✓ |
| Photo Electric Eye Triggering | | ✓ | ✓ |
| Enhanced Low Speed Accuracy | | ✓ | ✓ |
| Connects to Phone/Tablet/Computer | | | ✓ |

*Estimated Q1 2024

* Coming Soon

| Hardware | Software |
|---|---|
| <ul style="list-style-type: none"> • 5" touchscreen models for easy, safe operation. • Host vehicle power supply <ul style="list-style-type: none"> • Optional DC battery configuration for out of vehicle use • 10Hz GPS with satellite corrections. <ul style="list-style-type: none"> • GNSS, Glonass, Beidou, Galileo (35+ satellites) • Accurate to within 0.05% • Repeatable measurements to within 3 foot/mile • Vehicle OBD-II interface compensates when GPS lost (Advanced Model) • Quickly installed or moved between vehicles • Rugged container for shipping and storage | <ul style="list-style-type: none"> • NO CALIBRATION REQUIRED • Current speed output • Powered on and receiving satellites in minutes • Simple to operate (stop, start, pause, input station) • Large touchscreen icons • OBD model self-calibrates incoming OBD pulses • Measure reported in English or Metric units • View GPS details and real time GPS coordinates • Connect to inertial profiler or other equipment <ul style="list-style-type: none"> • Replaces encoder hardware for some inertial profiler applications. |



▲ Multiple Power & Signal Connections ▲

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