

V&V Data Collection Tools

TRIMBLE GPS UNITS



These units can be connected with a United States Coast Guard Navigation Beacon receiver to collect real-time 1-meter positions (where the signal is available). The 4000 units and a Trimble PCMCIA-card GPS receiver can also be connected to a laptop-based moving map display to display a GPS position on any georeferenced map or image.

System Calibration Reports

As reported by the System Manufacturer, No Calibration/Maintenance Procedures are required for this instrument.

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System Specifications

The 4000SSi units are geodetic-quality units capable of producing post-processed surveys up to +/-1 cm in accuracy. The units can be used in a static mode with a tripod to survey fixed points (e.g., ground control points) or in kinematic mode to record a dynamic position (e.g., the path of an aircraft or auto). The units can also be equipped with a radio telemetry system to provide Real Time Kinematic (RTK) surveys over short baselines to accuracies of 2-10 cm. The 4000 units are supported by Trimble's GPSurvey, Trimnet, Trimmap, and Survey Office software packages. The software are all inter-compatible and allow for data management, processing, QA/QC, network adjustment, and visualization. Our entire GPS software suite is loaded onto field laptops for "in the field" data processing capability.

The GeoExplorer units are rugged hand-held units that have data logging capabilities and can achieve accuracies of 1-5 meters differentially corrected. These units can also be used in a static or dynamic environment. The GeoExplorer units are ideal for GPS mapping requirements such as identifying the location of interesting ground features, recording the position of a photograph or spectroradiometer survey, mapping the boundary of a forest stand or agricultural field. Trimble's Pathfinder Office software is used with the GeoExplorer, and both the software and hardware are compatible with the 4000 systems.

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**Information provided by the system manufacturer, [Trimble Navigation](#) **