

# Scalable 5800 GPS Survey System



Trimble has introduced a scalable Trimble 5800 GPS System, adding greater flexibility and versatility for a variety of survey, construction, civil engineering, and asset management applications. Surveyors can begin with the L1, postprocessing-only configuration. Two upgrades are available for higher performance: L1/L2, postprocessing only and L1/L2, full Real Time Kinematic (RTK).

The Trimble 5800 System combines a GPS receiver, antenna, UHF radio, Bluetooth wireless technology, and power source into a single compact unit weighing approximately 1.21 kilograms (2.67 pounds). The Trimble 5800 can be configured as a GPS base or rover, making it versatile for the surveyor's project needs. As a rover, the cable-free GPS system is comprised of the lightweight pole, controller, holder, and batteries for a full day's

work that weighs only 3.5 kilograms (7.8 pounds). The receiver has 2 MB of internal memory, making data collection easy and efficient in both static and RTK surveying modes. Environmentally rated to IP67 and submersible to a depth of 1 metre, the Trimble 5800 is rugged and can withstand a drop of up to 2 metres on to a hard surface.

The Trimble 5800 GPS system offers a 24-channel dual-frequency GPS receiver, containing Trimble's field proven Maxwell technology for robust tracking in difficult GPS environments.

Two additional channels for Wide Area Augmentation System (WAAS) and European Geostationary Overlay System (EGNOS) tracking allow surveyors to perform real-time differential surveys to Geographic Information System (GIS) grade without a base station.

The dual-frequency Trimble antenna enhances the tracking capabilities of the Trimble 5800-the patented four-point antenna feed provides sub-millimeter phase center stability for precise results. The position of the UHF radio antenna mounting further increases accuracy by being out of the GPS line-of-sight, reducing multipath and avoiding interference with the GPS antenna.