

Magellan ProMark 500 GNSS RTK Receiver



Magellan (CA, USA) has introduced the ProMark 500, a dual-frequency GNSS receiver that processes GPS, GLONASS and SBAS signals to offer land surveyors fast, real-time centimetre-level accurate surveying.

The ProMark 500 delivers RTK features in a light, cable-free rover that provides maximum mobility and flexibility. The embedded Magellan BLADE (Baseline Accurate Determination Engine) technology includes patented GPS+GLONASS processing algorithms insuring maximum benefit from the added GLONASS signals. BLADE also consists of other algorithms that provide fast initialisation, long-range accuracy, and robust signal tracking. The ProMark 500 is upgradeable for tomorrow's evolving satellite constellations.

The ProMark 500 combines high performance with a flexible all-in-one communications system that enables NTRIP or direct IP real-time corrections via a GSM/GPRS enabled cell-phone module; a UHF connection for either a Pacific Crest or Magellan UHF radio.

- The ProMark 500 uses the new version of Magellan's FAST Survey field software, fully re-designed to optimise the functionality and performance of the ProMark 500.
- The ProMark 500 field terminal, the MobileMapper CX, includes a sub-metre GPS receiver plus an open operating system to easily load customised third-party field software. Users will find that the ProMark 500 cable-free rover solution is particularly easy-to-use, compact and light-in-weight for all day on-the-go use.
- The ProMark 500 is available with GNSS Solutions, Magellan's office software suite for post-processing field data. New in GNSS Solutions is the ability to download data from multiple reference stations to provide a post-processed network solution for measurement quality control.

Magellan's BLADE technology introduces a patented way to use multiple GNSS constellations for high-accuracy positioning, maximising the benefit of adding extra satellites to its already stellar GPS performance. BLADE insures fast initialisation, long-range accuracy, and provides superior performance in occluded-sky environments.