The Trimble® 5700 GPS receiver is an advanced, but easy-to-use, surveying instrument that is rugged and versatile enough for any job.

Combine your 5700 with the antenna and radio that best suit your needs, and then add the Trimble controller and software of your choice for a total surveying solution. The powerful 5700 GPS system will provide all the advanced technological power and unparalleled flexibility you need to increase your efficiency and productivity in any surveying environment.

**ADVANCED GPS RECEIVER TECHNOLOGY**
The 5700 is a 24-channel dual-frequency RTK GPS receiver featuring the advanced Trimble Maxwell™ technology for superior tracking of GPS satellites, increased measuring speed, longer battery life through less power use, and optimal precision in tough environments. WAAS and EGNOS capability lets you perform real-time differential surveys to GIS grade without a base station.

**MODULAR DESIGN FOR VERSATILITY**
For topographic, boundary, or engineering surveying, clip the receiver to your belt, carry it in a comfortable backpack, or configure it with all components on a lightweight range pole. With the receiver attached to your site vehicle, you can survey a surface as fast as you can drive! For control applications, attach the receiver to a tripod … it’s designed to work the way your job requires.

**FULL METAL JACKET … AND LIGHTWEIGHT**
The 5700 GPS receiver boasts the toughest mechanical and waterproofing specs in the business. Its magnesium alloy case is stronger than aluminum, but also 30% lighter—the 5700 weighs just 1.4 kg (3 lb) with batteries. Whether you’re collecting control points on a tripod, or scrambling down a scree slope collecting real-time kinematic data, the receiver is light enough and tough enough to carry on performing.

**YOUR CHOICE OF TRIMBLE ANTENNA**
Choose the high-accuracy Trimble GPS antenna that best suits your needs: the lightweight and portable Zephyr™ antenna for RTK roving, or the Zephyr Geodetic™ antenna for geodetic surveying.

The Zephyr Geodetic antenna offers submillimeter phase center repeatability and excellent low-elevation tracking, while the innovative design of its Trimble Stealth™ ground plane literally burns up multipath energy using technology similar to that used by stealth aircraft to hide from radar. The Zephyr Geodetic antenna thus provides unsurpassed accuracy from a portable antenna.
General
- Front panel for on/off, one-button-push data logging, CompactFlash card formatting, ephemesis and application file deletion, and restoring default controls
- LED indicators for satellite tracking, radio-link, data logging, and power monitoring
- Tripod clip or integrated base case

PERFORMANCE SPECIFICATIONS
Measurements
- Advanced Trimble Maxwell technology
- High-precision multiple correlator L1 and L2 pseudorange measurements
- Unfiltered, unsmoothed pseudorange measurement data for low noise, low multipath error, low time domain correlation, and high dynamic response
- Very low noise L1 and L2 carrier phase measurements with <1 mm precision in a 1 Hz bandwidth
- L1 and L2 Signal-to-Noise ratios reported in dB-Hz
- Proven Trimble low-elevation tracking technology
- 24 Channels L1 C/A Code, L1/L2 Full Cycle Carrier, WAAS/EGNOS

Code differential GPS positioning¹
- Horizontal: ±(0.25 m + 1 ppm) RMS
- Vertical: ±(0.5 m + 1 ppm) RMS
- WAAS differential positioning accuracy typically <5 m DRMS²

Static and FastStatic GPS surveying¹
- Horizontal: ±5 mm + 0.5 ppm RMS
- Vertical: ±5 mm + 1 ppm (× baseline length) RMS

Kinematic surveying¹
- Real-time and postprocessed kinematic surveys
- Horizontal: ±(10 mm + 1 ppm) (× baseline length) RMS
- Vertical: ±(20 mm + 1 ppm) RMS
- Initialization time: 10 sec + 0.5 times baseline length in km, up to 30 km
- Scalable GPS infrastructure initialization time: <30 sec
- Typical anywhere within coverage area
- Initialization reliability³: Typically >99.9%

HARDWARE
5700 GPS receiver
Physical:
- Casing: Tough, lightweight, fully sealed magnesium alloy
- Water/dustproof: IP67 Dustproof, protected from temporary immersion to depth of 1 m (3.28 ft)
- Shock and vibration: Tested and meets the following environmental standards:
  - Shock: MIL-STD-810F to survive a 1 m (3.28 ft) drop onto concrete
  - Vibration: MIL-STD-810-F on each axis
- Weight: 1.31 kg (2.88 lb) with internal batteries, internal radio, internal battery charger, standard UHF antenna: 1.4 kg (3 lb)
- As entire RTK rover with batteries for greater than 7 hours, less than 4 kg (8.8 lb)

Dimensions: (W×H×L): 13.5 cm × 8.5 cm × 24 cm (5.3 in × 3.4 in × 9.5 in)

Electrical:
- Power: DC input 11 V DC to 28 V DC with over voltage protection
- Power consumption: 2.5 W receiver only, 3.75 W including internal radio

Battery: Greater than 10 hours data logging, or greater than 7 hours of RTK operation on two internal 2.0 Ah lithium-ion batteries
- Battery weight: 0.1 kg (3.5 oz)
- Battery charger: Internal with external AC power adapter; no requirement for external power charger
- Power output: 11.5 V to 20 V DC (Port 1), 11.5 V DC to 27.5 V DC (Port 3) on external power input

Certification: Class B Part 15 FCC certification, CE Mark approved, C-Tick approved, Canadian FCC

Environmental:
- Operating temperature: –40 °C to 65 °C (–40 °F to 149 °F)
- Storage temperature: –40 °C to 80 °C (–40 °F to 176 °F)
- Humidity: 100%, condensing

Communications and data storage:
- 2 external power ports, 2 internal battery ports, 3 RS232 serial ports
- Integrated USB for data download speeds in excess of 1 MB per second
- External GPS antenna connector
- CompactFlash advanced lightweight and compact removable data storage.
  - Options of 64 MB or 128 MB from Trimble
  - More than 3,400 hours continuous L1+L2 logging at 15 seconds with 6 satellites typical with 128 MB card
- Fully integrated, fully sealed internal UHF radio modem option
- GSM, cellphone, and CDPD modem support
- Dual event marker input capability
- 1 Hz, 2 Hz, 5 Hz, and 10 Hz positioning and data logging
- 1 pulse per second output capability
- CMRII, CMR+, RTCM 2.× and 3.× input and output standard
- 15 NMEA outputs

Zephyr antenna
- Dimensions: 16.2 cm × 6.2 cm diameter height (6.38 in × 2.44 in)
- Weight: 0.55 kg (1.20 lb)
- Operating temperature: –40 °C to 70 °C (–40 °F to 158 °F)
- Humidity: 100% humidity proof, fully sealed

Zephyr Geodetic antenna
- Dimensions: 34.3 cm (13.5 in) diameter × 7.6 cm (3 in) height
- Weight: 1.31 kg (2.88 lb)
- Operating temperature: –40 °C to 70 °C (–40 °F to 158 °F)
- Humidity: 100% humidity proof, fully sealed
- Shock and vibration: Tested and meets the following environmental standards:
  - Shock: MIL-STD-810-F to survive a 2 m (6.56 ft) drop onto concrete
  - Vibration: MIL-STD-810-F on each axis
- 4-point antenna feed for submillimeter phase center repeatability
- Integral low noise amplifier
- 50 dB antenna gain

Specifications subject to change without notice.

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