



# PG200

## GNSS Receiver

### KEY FEATURES

High-sensitivity GNSS Receiver with on-board processing of all positioning data

- Sub-meter real-time accuracy
- Integrated antenna

Compatible with multiple platforms:

- iOS (Apple Certified)
- Android
- Windows & Windows Mobile (WEHH)

IP65 Environmental Protection and MIL-STD-810G ruggedness

ViewPoint™ RTX support over L-band and cellular

Bluetooth connectivity

Long battery life

### ACCURACY FOR EVERYONE: PROFESSIONAL-LEVEL GNSS POSITIONING INFORMATION FOR ALMOST ANY DEVICE

The Trimble® PG200 is a rugged, pocket-sized GNSS receiver that provides sub-meter accuracy to users of any Bluetooth® connected mobile device, including smart phones, tablets, or more traditional integrated data collection tools such as a Trimble handheld computer.

#### Multiple Constellation Support Provides Global Reach

The PG200 supports multiple GNSS constellations, including GPS, GLONASS, Galileo, QZSS and BeiDou, to provide a truly global solution. The PG200 receiver includes the ability to utilize SBAS, Trimble ViewPoint™ RTX or VRS correction sources to suit the location and business requirements - providing accurate GNSS information almost anywhere on earth.

The Trimble ViewPoint RTX\* service provides global sub-meter accuracy, using IP cellular where coverage is available, or over satellite L-band, even in remote locations.

#### Small and Easy to Use

The small size and light weight of the PG200 makes it easy for the mobile worker to carry without worrying about bulky equipment. The palm-sized device can easily be carried in a pocket or hung on a belt, using the optional belt pouch.

The intuitive GNSS Status software allows configuration of real time corrections and provides status information, conforming to device platform standards (iOS, Microsoft, or Android). GNSS Status will connect to any PG200 once it has been paired.

IP65 rated environmental protection and military-spec 810G certified ruggedness make the PG200 ideal for professional outdoor use.

The Trimble PG200 GNSS receiver is easy to use. Simply:

- Install the GNSS Status application on the consumer or Trimble device
- Turn on the PG200 receiver and pair using Bluetooth
- Configure the receiver with a correction source (e.g. SBAS, RTX)
- Collect data as normal



*\*Available only through Trimble applications, Trimble ViewPoint RTX service provides global sub-meter accuracy using IP cellular where coverage is available, or over satellite L-band, so remote location work is not a problem.*



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## GNSS

Sensor type: ..... L1/G1 GNSS receiver and antenna  
Systems: ..... GPS, GLONASS, Galileo, Beidou, QZSS  
Channels: ..... 44-channel, parallel tracking  
Correction sources: .... SBAS, ViewPoint RTX, QZSS, VRS  
SBAS:4-channel, parallel tracking WAAS, EGNOS, MSAS  
GAGAN, SBAS ranging  
Receiver Protocols: ..... NMEA 0183 v4.00, Binary  
Update rate: ..... 1 Hz  
Time to first fix: ..... 45s typically  
Reacquisition: ..... < 2s  
Real time correction protocols: ..... CMR, CMR+, CMRx  
RTCM 2.1, 2.2, 2.3, 3.0, 3.1  
SBAS accuracy<sup>1</sup>: ..... <100 cm  
ViewPoint RTX<sup>1</sup>: ..... 50 cm HRMS  
Code DGNS accuracy (real-time)<sup>1</sup>: ..... 75 cm + 1 ppm  
HRMS  
Maximum speed: ... 1,850 kph / 1,150 mph / 999 knots  
Maximum altitude: ..... 9,000 m (29,520 ft)

## INTERFACES

Port: ..... Bluetooth 2.1 + EDR,  
USB 2.0 (charge/firmware update)  
Bluetooth transmission: ..... Class 2 (10m), iAP2 and 2.1  
EDR  
Bluetooth frequency: ..... 2.400 - 2.485 GHz  
Raw measurement data: ..... Trimble GSOF, Binary  
Communication status LED: ..... Bluetooth status, GNSS,  
Corrected GNSS  
Power status LED: ..... Charging, charging (full), 3 stage  
battery status (>50%, 15 – 50%, <15%)

## BATTERY AND POWER

Battery Type: ..... Integrated Lithium-Ion  
Battery Capacity: ..... 3.7v 15Wh  
Battery Life: ..... 10+ hours  
Charging Time: ... 5 hours (typical, with supplied charger)  
External Antenna Voltage Output: ..... 3 VDC  
External Antenna Input Impedance: ..... 50 Ohms

## ENVIRONMENTAL

Water/Dust Ingress: ..... IP65  
Operation temperature: ..... -20 °C to +60 °C  
(-4 °F to +140 °F)  
Storage temperature: ..... -30 °C to +70 °C  
(-22 °F to +158 °F)  
Relative humidity: ..... 95% non-condensing  
Shock (non-operating): ..... 1.2 m (4 ft) to  
plywood over concrete  
Vibration: ..... MIL-STD-810G Method 514.5  
Procedure I Category 24  
Maximum storage altitude: ..... 12,192 m (40,000 ft)  
Maximum operational altitude: ..... 9,000 m (29,520 ft)

## PHYSICAL

Enclosure Dimensions: ..... 11.2 x 6.8 x 2.6 cm  
4.4 x 2.7 x 1 in  
Weight: ..... 187g (0.4 lb)  
Power Connector: ..... Micro-B USB Female  
External Antenna Connector: ..... SMB Female

## INTERNAL ANTENNA

Frequency Range: ..... L1, G1, L-Band  
(1535 MHz - 1610 MHz)

## SUPPORTED PLATFORMS

iOS 7, iOS 8, Android (4.1 or greater),  
Windows (7 or greater), WEHH (6.5x)

## COMPLIANCE

FCC Part 15 (Class B device), CE Mark, RoHS

## ACCESSORIES

Belt pouch/clip  
Pole pouch  
External antenna  
Soft Hat for antenna



"Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPhone or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPhone or iPad may affect wireless performance.

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<sup>1</sup>Accuracy and reliability may be subject to anomalies due to multipath, obstructions, satellite geometry, and atmospheric conditions. Always follow recommended GNSS data collection practices. Specified ViewPoint RTX accuracy is typically achieved within 10 minutes.



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