DATASHEET

KEY FEATURES

Trimble Floodlight satellite shadow reduction technology
More positions and increased accuracy in tough environments

Work your way
Choose your configuration, data collector, and software

Real-time decimeter accuracy
Confidence in the data you collect in the field

Rugged design, built for the field
Works in the harsh physical environments you work

Field-swappable battery
All day operation and the convenience of swap-and-go battery replacement

TRIMBLE PRODUCTIVITY, YOUR WAY

With the flexibility to do it all, Trimble® Pro series receivers deliver unparalleled freedom of choice in professional GIS data collection. As the next generation of the Trimble GPS Pathfinder® family, the Trimble Pro series lets you configure a solution to match a wide range of work situations:

- Handheld or tablet data collector
- Real-time or postprocessed workflows
- Connectivity via Bluetooth®, serial, or USB to external devices
- In a backpack, on a pole, or mounted on a vehicle

With the Trimble Pro series receiver collect data your way, while maintaining the high-accuracy and position availability you need to stay productive.

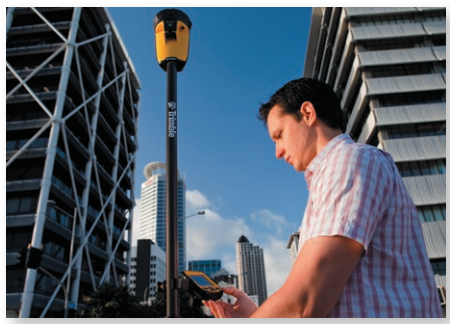
Dedicated to GIS data collection

Trimble Pro series receivers are built to withstand the rigors of long hours in tough outdoor conditions yet optimized for high-accuracy GIS data collection workflows. The integrated antenna reduces the complexity of the complete system for fast setup and swift data collection campaigns. Field workers can be up and running with minimal training saving time and money.

Trimble Pro series receivers improve GNSS productivity with Trimble Floodlight™ technology for improved satellite availability and Trimble H-Star™ technology for high-accuracy data logging. The Trimble Pro series can deliver down to decimeter accuracy—either postprocessed or in real time for the confidence the job is done right while still on site. Using Trimble TerraSync™ software or Trimble Positions™ Mobile extension in the field or other GIS-centric field workflows, Trimble Pro receivers are designed to deliver attribute-rich field data quickly and easily

Stay out of the shadows with Trimble Floodlight

For maximum productivity in high-accuracy applications, Trimble Floodlight technology lets you take high-accuracy data collection into the toughest GNSS environments. Trees and buildings create "satellite shadows", limiting the areas where you can reliably collect high-accuracy GNSS data. Using Floodlight technology, the Pro series keeps your teams productive without reducing accuracy. Work with fewer disruptions and ensure better data, faster data collection and higher field efficiency.



Flexible to fit with the way you work

With your preferred configuration, choice of real-time or postprocessed workflows, decimeter or submeter accuracy-levels, and optional Floodlight technology—Trimble Pro series receivers enable you to work productively how and where you need to.

Trimble

TRIMBLE PRO SERIES

PRODUCT MODELS

	Pro 6H	Pro 6T
Accuracy	Decimeter	Submeter
Floodlight	Yes	Optional

GNSS

Receiver . . . . . Trimble Maxwell™ 6 GNSS chipset
Channels . . . . . 220 channels
Systems . . . . . GPS, GLONASS, WAAS/EGNOS/MSAS/GAGAN
Update rate . . . . . 1 Hz
Time to first fix . . . . . 45 s (typical)
NMEA-0183 support . . . . . Optional
Trimble Floodlight technology . . . . . Optional
RTCM support RTCM2.x/RTCM3.x
CMR support . . . . . CMR/CMR+/CMRx

Trimble Pro 6T receiver

GPS L1C/A
GLONASS L1C/A, L1P

Trimble Pro 6H receiver

GPS L1C/A, L2C, L2E
GLONASS L1C/A, L1P, L2C/A, L2P

GNSS ACCURACY[1]

Real-time DGNSS (Horizontal RMS)

Code . . . . . 75 cm + 1.0 ppm
SBAS[2] (WAAS/EGNOS/MSAS) . . . . . Typically < 1 m

Real-time and postprocessed H-Star (Horizontal RMS)
(Trimble Pro 6H configurations)

Horizontal . . . . . 10 cm + 1.0 ppm

Postprocessed DGNSS (Horizontal RMS)

Code . . . . . 50 cm + 1.0 ppm
Carrier (after 45 minutes) . . . . . 1 cm + 2.0 ppm

TEMPERATURE (MIL-STD-810G)

Operation . . . . . –20 °C to +60 °C (–4 °F to +140 °F)
Storage . . . . . –30 °C to +70 °C (–22 °F to +158 °F)

ENVIRONMENTAL (MIL-STD-810G)

Drop shock . . . . . 1.2 m (4 ft) to plywood over concrete
Functional shock . . . . . Method 516.6 Procedure I
Accidental drop on pole . . . . . 2 m (6.56 ft)
Vibration . . . . . Method 514.5 Procedure I Category 24
Relative humidity . . . . . 95% non-condensing
Altitude rating . . . . . Method 500.5
Maximum storage altitude . . . . . 12,192 m (40,000 ft)
Maximum operational altitude . . . . . 9,000 m (29,520 ft)
Chemical exposure . . . . . Method 504.1 Procedure I
Salt Mist . . . . . Method 509.5

INGRESS PROTECTION

Water/Dust IP65

SIZE AND WEIGHT

Height . . . . . 204 mm (8 in)
Diameter . . . . . 138 mm (5.4 in)
Weight (inc. battery) . . . . . 1040 g (2.3 lb)

BATTERY

Type . . . . . Rechargeable, removable Li-Ion
Capacity . . . . . 11.1 V 2.5 AH
Charge time . . . . . 4 hours (typical)

BATTERY RUN TIME[3]

Typical . . . . . > 12 hours

CONNECTORS & INPUTS

- Mini USB connector
- External power connector
- DE-9 serial connector
- External antenna connector

WIRELESS

Bluetooth[4] . . . . . Version 2.1 + EDR

IN THE BOX

- Trimble Pro series receiver
- AC Power adaptor
- Serial cable
- Rechargeable battery pack
- USB data cable
- Documentation

OPTIONAL ACCESSORIES

- Trimble Tornado™ external GNSS antenna (Pro 6H receiver)
- Trimble Tempest™ external GNSS antenna (Pro 6T receiver)
- 1.5 m & 5 m external antenna cable
- Backpack kit for external antenna
- Vehicle power supply

SOFTWARE COMPATIBILITY

- Trimble TerraSync software
- Trimble GPS Pathfinder Office software
- Trimble Positions software suite
- Trimble GPScorrect™ extension for Esri ArcPad software
- Trimble GPS Analyst™ extension for Esri ArcGIS for Desktop software
- Trimble GPS Controller software
- Custom applications built with Mobile GIS Developer Community software development kits (SDKs)
- Third party NMEA-based applications

1 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 Centimeter accuracy can normally be achieved for baselines of 30 km or less. Specified H-Star accuracy can normally be achieved for baseline lengths of 100 km or less. Centimeter and H-Star accuracy is typically achieved within 2 minutes. Carrier postprocessed accuracy is limited to data collected within 10 km of the base station used for corrections.
2 SBAS (Satellite Based Augmentation System). Includes WAAS; available in North America only, EGNOS; available in Europe only and MSAS; available in Japan only.
3 Actual run time will vary with conditions and environment of use.
4 Bluetooth type approvals are country specific. Pro series receivers have Bluetooth approval in the U.S. and in most European countries. For further information please consult your local reseller.

Specifications subject to change without notice.

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