

TRIMBLE GEO 7 SERIES

KEY FEATURES

Trimble Flightwave remote positioning technology

Easy and productive data capture of assets with remote measurement

Trimble Floodlight satellite shadow reduction technology

More positions and increased accuracy in tough GNSS environments

Maximize your GNSS productivity and be ready for the future

Track existing and planned GNSS constellations

End-to-end data collection solution

Flexible software options, to collect, process, and manage data



READY FOR ANYTHING

Be truly productive with the Trimble® Geo 7 series. No matter what gets in your way.

Eliminate physical barriers to field success

Geo 7X handhelds offer two powerful technology innovations so you stay productive when the going gets tough.

For times when occupying the position is simply not possible, smart mappers turn to Trimble Flightwave™ technology. Flightwave-enabled workflows easily integrate offset measurements from the Geo 7 rangefinder module directly with Trimble data collection software. Users can simply point and shoot to get the position, despite dangerous conditions or right-of-way challenges—saving time each day while getting previously impossible work done.

Trimble Floodlight™ technology keeps you working when heavy overhead cover obstructs weak satellite signals.

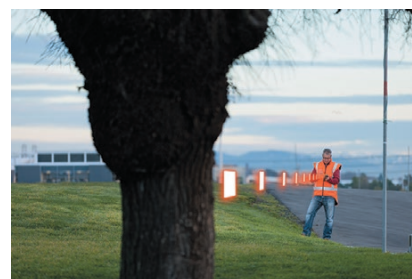
Smart data collection

By providing compatibility with existing and planned GNSS constellations, the Geo 7X has the smarts to maximize productivity by delivering reliable GNSS tracking today and in the future.

Compatible with the breadth of Trimble GIS field and office software, the Geo 7X gives you flexible end-to-end data collection solutions and workflow choices. From the field-proven Trimble TerraSync™ and Positions™ software, to the customizable data collection workflows of Trimble TerraFlex™ software. Work productively, the way you want to.

Everything you need to work

Better faster camera, greater processing power, and more—it's all there to keep you working. Stay on target, no matter what, with the Trimble Geo 7 series.



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PHYSICAL DIMENSIONS

Geo 7X handheld (H x W x D) 234 mm x 99 mm x 56 mm
 (9.2 in x 3.9 in x 2.2 in)
 Geo 7X handheld with rangefinder 1080 g

GNSS, ORIENTATION, AND DISTANCE¹

GNSS sensor L1/L2 GNSS receiver and antenna
 Chipset 220 channel Trimble Maxwell™ 6
 Systems GPS, GLONASS, Galileo, BeiDou, QZSS
 SBAS WAAS, EGNOS, MSAS, GAGAN
 SBAS+ Yes
 Floodlight Yes
 Receiver protocols NMEA, TSIP2
 Update rate 1 Hz
 Time to first fix < 45 seconds (typically)
 Real-time correction protocols RTCM2.x/RTCM3.x/CMR+/CMRx
 Real-time Centimeter mode accuracy²
 Horizontal 1 cm + 1 ppm HRMS
 Vertical 1.5 cm + 2 ppm VRMS
 Postprocessed Centimeter mode accuracy²
 Horizontal 1 cm + 1 ppm HRMS
 Vertical 1.5 cm + 1 ppm VRMS
 H-Star™ accuracy 10 cm + 1 ppm HRMS
 Code accuracy (real time) 75 cm + 1 ppm HRMS
 Code accuracy (postprocessed) 50 cm + 1 ppm HRMS
 SBAS accuracy Typically submeter

Orientation sensors 3-axis gyro, magnetometer, accelerometer
 Heading accuracy 1.5°
 Inclination accuracy 0.5°
 Roll accuracy 0.5°

Distance sensor Laser rangefinder module
 Communication protocols NMEA or Trimble proprietary
 Passive range Up to 120 m
 Reflective range Up to 200 m
 Accuracy³ 0.05 m
 Range precision 0.01 m

NETWORK AND WIRELESS CONNECTIVITY

GSM/GPRS/EDGE 850 / 900 / 1800 / 1900 MHz
 UMTS/HSPA+ 800 / 850 / 900 / 1900 / 2100 MHz
 CDMA/EV-DO Rev. A 800 / 1900 MHz (Verizon certified)
 Wi-Fi 802.11b/g
 Bluetooth profiles BT 2.0 +EDR (SPP, OPP, FTP, PAN, A2DP, DUN, HID)

POWER AND BATTERY⁴

Type Rechargeable, removable Li-Ion
 Capacity 11.1V 2,500 mAh
 Charge time < 4 hours (typical)
 Real time DGNSS usage (via integrated 3G/3.5G) Up to 7 hours
 Real time DGNSS usage (via Bluetooth) Up to 9.5 hours
 Autonomous GNSS usage Up to 10.5 hours
 Non-GNSS use Up to 24 hours
 Standby Up to 50 days

SYSTEM CPU, MEMORY, AND CAMERA

CPU Texas Instruments DM3730 1 GHz + GPU
 Memory 4 GB user memory + SD slot (up to 32 GB), 256 MB RAM
 Camera 5 MP

DISPLAY AND TOUCH PANEL

Display 4.2" VGA (640 x 480) LED transfective
 Touch panel Resistive touch panel with polarized light filter
 Brightness 280 cd/m²

OS

Microsoft® Windows® Embedded Handheld version 6.5 Professional.
 English (U.S.), Chinese (Simplified), Chinese (Traditional), French, German, Italian,
 Japanese, Korean, Spanish, Portuguese (Brazil), Russian.

SYSTEM REQUIREMENTS

Syncing with a PC requires Windows 7; Windows Vista; or Windows XP Home or Professional with Service Pack 3 or later. Some field applications and services require mobile internet access.

ENVIRONMENTAL USE

Operating ambient temperature -4° to 140° F (-20° to 60° C)
 Storage temperature -22° to 158° F (-30° to 70° C)
 Relative humidity 95% non-condensing
 Maximum operating altitude 29,000 ft (9,000 m)
 Maximum storage altitude 40,000 ft (12,000 m)
 Water/dust ingress IP65
 Functional shock MIL-STD 810G Method 516.6 Procedure I
 Drop 4 ft (1.22 m)
 Vibration MIL-STD 810 G Method 514.6 Procedure I

SOFTWARE COMPATIBILITY

Please refer to the **Product Compatibility** list.
 (www.trimble.com/mappingGIS/productcompatibility)

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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.
 2 Stated accuracy is with Trimble Zephyr™ Model 2 GNSS antenna.
 3 1-sigma, @ 20 C, to Kodak Grey card at 50 m.
 4 Actual run time will vary with conditions and environment of use.

Specifications subject to change without notice.





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