

Trimble Geo 7 Series

Key Features

Easy and productive asset data capture with remote mapping and measurement

Capture more positions and increased accuracy in tough GNSS environments

Compatible with existing and planned GNSS constellations to maximize investment

Flexible software options to collect, process, and manage data with simple, connected workflows



READY FOR ANYTHING

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

The Trimble® Geo 7X handheld is from the Trimble GeoExplorer® series family of integrated, rugged, and high-accuracy GNSS handhelds. As a streamlined solution that enables faster and more productive data collection, the Geo 7X is ideal for organizations, such as utility companies, municipalities, and environmental agencies, requiring mobile data collection and asset management solutions.

Packed full of features that enable fast geospatial data collection anywhere with the level of accuracy and quality required by your organization, the Geo 7X is the most versatile GNSS handheld yet. The Geo 7X ensures you have the right data the first time, enabling the best decisions to be made quickly while saving time and money.

Eliminate Physical Barriers to Field Success

For times when occupying the position is simply not possible due to dangerous conditions or right-of-way challenges, turn to Trimble Flightwave™ technology integrated in the Geo 7X. Utilizing the detachable Geo 7 rangefinder accessory, Flightwave workflows enable scale and location measurement of field assets at distances up to 120 m without a reflector. Flightwave measurements integrate directly into Trimble data collection software—simply point and shoot to get the position—even where there are obstacles such as traffic or private land access limitations. The Geo 7X with Flightwave saves time each day while getting previously impossible work done.

Trimble Floodlight™ satellite shadow reduction technology keeps you working when heavy overhead cover, such as trees and buildings, obstruct GNSS satellite reception. Now you can work with fewer disruptions and obtain high quality data faster and at less cost. These powerful technologies enable you to stay productive all day long—no matter what obstacles you encounter.

Smart Data Collection, Smart Investment

By providing compatibility with existing and currently planned GNSS constellations, the Geo 7X delivers reliable GNSS tracking today and for years to come—ensuring your investment continues to provide value long into the future.

Achieve better accuracy in real-time without the reliance of a traditional reference station-based infrastructure or VRS network through Trimble RTX™ correction service options available with the Trimble Geo 7X. Trimble RTX correction services leverage real-time data from an established tracking station network to compute and deliver high-accuracy positions to the GNSS handheld nearly anywhere on the globe. A range of Trimble RTX correction services offered with the Trimble Geo 7X provide internet-delivered, high-accuracy GNSS positioning wherever cellular communications are available so you can obtain the accuracy you need—from submeter to centimeter level.

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

With a powerful 1.0 GHz processor, 256 MB RAM, 4 GB of onboard storage, and IP65 rating, the Geo 7X is a high performance device, designed to work hard in the environments that you do. The built-in 5 MP camera with enhanced zoom operation, bright color reproduction, and geotagging capability enables information about an asset, event, or site to be easily captured. A sunlight-optimized display maintains exceptional clarity in all outdoor conditions for crisp on screen text and images. And with the integrated dual-mode cellular modem, you can stay connected for continuous network and Internet access to real-time map data, web-based services, Trimble VRS™ and RTX corrections, and live update of field information.

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 | Trimble Maxwell™ 6 (up to 220 channels) |
| Systems | GPS, GLONASS, Galileo, BeiDou, QZSS |
| SBAS | WAAS, EGNOS, MSAS, GAGAN, SBAS+ |
| 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 accuracy ² | |
| Horizontal | 1 cm + 1 ppm HRMS |
| Vertical | 1.5 cm + 2 ppm VRMS |
| Postprocessed Centimeter mode accuracy ² | |
| Horizontal | 1 cm + 1 ppm HRMS |
| Vertical | 1.5 cm + 1 ppm VRMS |

H-Star™ accuracy (real-time or postprocessed) 10 cm + 1 ppm HRMS

| | |
|------------------------------------|--------------------|
| Code DGNS accuracy (real-time) | 75 cm + 1 ppm HRMS |
| Code DGNS accuracy (postprocessed) | 50 cm + 1 ppm HRMS |
| SBAS accuracy | <100 cm |

| | |
|----------------------------------------------|-------------|
| CenterPoint® RTX (via cellular) ¹ | |
| Horizontal | .4 cm HRMS |
| Vertical | 10 cm VRMS |
| RangePoint™ RTX (via cellular) ¹ | .30 cm HRMS |
| ViewPoint RTX (via cellular) ¹ | .50 cm HRMS |

| | |
|----------------------------------|------------------------------------------|
| Orientation sensors ⁵ | 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 |
| Accuracy ³ | ±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) |

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POWER AND BATTERY⁴

| | |
|-----------------------------------------------|--------------------------------|
| Type | Rechargeable, removable Li-Ion |
| Capacity | 11.1V 2,500 mAh |
| Charge time | < 4 hours (typical) |
| Real time DGNS usage (via integrated 3G/3.5G) | Up to 7 hours |
| Real time DGNS 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/m ² |

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

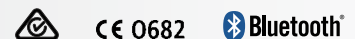
| | |
|-------------------------------|-----------------------------------------|
| Operating ambient temperature | –4° to 140° F (–20° to 60° C) |
| Storage temperature | –22° to 158° F (–30° to 70° C) |
| Relative humidity | 95% non-condensing |
| Maximum operating altitude | .29,000 ft (9,000 m) |
| 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)

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. CenterPoint RTX accuracy is typically achieved within 30 minutes. RangePoint RTX and ViewPoint RTX accuracy is typically achieved within 5 minutes.
2 Stated accuracy is with Trimble Zephyr™ Model 2 GNSS antenna. Requires the Geo 7 series Centimeter Option.
3 1-sigma, @ 20 C, to Kodak Grey card at 50 m.
4 Actual run time will vary with conditions and environment of use.
5 1-sigma. Accuracy and reliability may be subject to anomalies due to sensor calibration quality, temperature, and presence of local magnetic disturbances. Always follow recommended sensor calibration and operation practices.

Specifications subject to change without notice.



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