Geo 7 Series

HANDHELD

READY FOR ANYTHING

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.

Eliminate Physical Barriers to Field Success

When physically occupying a position is 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.

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.

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 TM 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 $^{\text{TM}}$ and Positions $^{\text{TM}}$ software to the customizable data collection workflows of Trimble TerraFlex $^{\text{TM}}$ software.

Everything You Need to Work

With a powerful 1.0 GHz processor, 256 MB RAM, 4 GB of onboard storage, IP65 rating, and sunlight-optimized display, 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, and geo-tagging capability enables information about an asset, event, or site to be easily captured. 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.

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

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





PHYSICAL DIMENSIONS

Geo 7 Series HANDHELD

Geo 7X handheld (H x W x D)	
Geo 7X handheld with rangefinder	(9.2 in x 3.9 in x 2.2 in)
GNSS, ORIENTATION, AND DISTANCE ¹ GNSS sensor Chipset Systems SSAS Floodlight Receiver protocols Update rate Time to first fix Real-time correction protocols	L1/L2 GNSS receiver and antenna Trimble Maxwell" 6 (up to 220 channels) . GPS, GLONASS, Galileo, BeiDou, QZSS . WAAS, EGNOS, MSAS, GAGAN, SBAS+ Yes . NMEA, TSIP2
Real-time Centimeter mode accuracy ² Horizontal Vertical	
Postprocessed Centimeter mode accuracy ² HorizontalVertical.	
$\text{H-Star}^{\text{\tiny{10}}} \text{ accuracy (real-time or postprocessed)}. \ .$	10 cm + 1 ppm HRMS
Code DGNSS accuracy (real-time)	50 cm + 1 ppm HRMS
CenterPoint® RTX (via cellular)¹ Horizontal Vertical FieldPoint RTX" (via cellular)¹ RangePoint" RTX (via cellular)¹ ViewPoint RTX" (via cellular)¹	
Orientation sensors ⁵	±1.5° ±0.5°
Distance sensor Communication protocols Passive range. Reflective range Accuracy ³ Range precision	NMEA or Trimble proprietary Up to 120 m .Up to 200 m .±0.05 m
NETWORK AND WIRELESS CONNECTI GSM/GPRS/EDGE. UMTS/HSPA+. CDMA/EV-DO Rev. A. Wi-Fi. Bluetooth profiles. BT 2.0 +EDR	850 / 900 / 1800 / 1900 MHz .800 / 850 / 900 / 1900 / 2100 MHz 800 / 1900 MHz (Verizon certified)

POWER	AND	RAT	TFRY ⁴
IOVVEIN	AIND	וחם	

Type	Rechargeable, removable Li-Ion
Capacity	
Charge time	< 4 hours (typical)
Real time DGNSS usage (via integrated 3G/3.5G)	
Real time DGNSS usage (via Bluetooth)	Up to 9.5 hours
Autonomous GNSS usage	Up to 10.5 hours
Non-GNSS use	
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
FAMORE AND TRANSPORTED TO THE STANDARD TO

DISPLAY AND TOUCH PANEL

....4.2" VGA (640 x 480) LED transflective

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	
Maximum storage altitude	
Water/dust ingress	IP65
Functional shock	OG Method 516.6 Procedure I
Drop	
Vibration MIL-STD 810	G Method 514.6 Procedure I

SOFTWARE COMPATIBILITY

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

- To finitutes wordwide. Rangerouri, it is an overvious in the accuracy is typically achieved within 3 minutes. Stated accuracy is with Trimble ZephyrTM Model 2 GNSS antenna. Requires the Geo 7 series Centimeter Option. 1-sigma. @ 20 C, to Kodak Grey card at 50 m. Actual run time will vary with conditions and environment of use.

 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.









NORTH AMERICA

Trimble Navigation Limited 10368 Westmoor Drive Wesminster CO 80021 USA

EUROPE

Trimble Germany GmbH Am Prime Parc 11 65479 Raunheim **GERMANY**

ASIA-PACIFIC

Trimble Navigation Singapore Pty Limited 80 Marine Parade Road #22-06, Parkway Parade Singapore 449269 Singapore

Contact your local Trimble Authorized Distribution Partner for more information

© 2013–2016, Trimble Navigation Limited. All rights reserved. Trimble, the Globe & Triangle logo. CenterPoint and GeoExplorer are trademarks of Trimble Navigation Limited. registered in the United States and in other countries. FieldPoint RTX, Flightwave, Floodlight, H-Star, Maxwell, Positions, RangePoint, RTX, TerraFlex, TerraSync, ViewPoint RTX, VRS, and Zephyr are trademarks of Trimble Navigation Limited. The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Trimble Navigation Limited is under license. Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. All other trademarks are the property of their respective owners. PN 022516-002E (02/16)



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 5 minutes in select regions, and within 30 minutes worldwide. FieldPoint RTX accuracy is typically achieved within 5 minutes in select regions, and within 15 minutes worldwide. RangePoint RTX and ViewPoint RTX accuracy is typically achieved within 5 minutes.