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.











TRIMBLE GEO 7 SERIES

PHYSICAL DIMENSIONS

PHISICAL DIMENSIONS	
Geo 7X handheld (H x W x D)	
	(9.2 in x 3.9 in x 2.2 in)
Geo 7X handheld with rangefinder	
CHICA ODIENTATION AND DISTANCE	
GNSS, ORIENTATION, AND DISTANCE ¹	
GNSS sensor	
Chipset	
Systems	GPS, GLONASS, Galileo, BeiDou, QZSS
SBAS	WAAS, EGNOS, MSAS, GAGAN
SBAS+	
Floodlight	Yes
Receiver protocols	
Update rate	
Time to first fix	< 45 seconds (typically)
Real-time correction protocols	PTCM2 V/PTCM2 V/CMP L/CMPV
Real-time Centimeter mode accuracy ²	
Legisental	1 and 1 1 mages LIDMC
Horizontal	
Vertical	
Postprocessed Centimeter mode accuracy ²	
Horizontal	
Vertical	
H-Star [™] accuracy	10 cm + 1 ppm HRMS
Code accuracy (real time)	
Code accuracy (postprocessed)	
SBAS accuracy	Typically submeter
Orientation sensors 3-ax	kis gyro, magnetometer, accelerometer
Heading accuracy	
Inclination accuracy	
Roll accuracy	
Distance sensor	Laser rangefinder module
Communication protocols	
Passive range	
Reflective range	· · · · · · · · · · · · · · · · · · ·
Accuracy ³	
Range precision	
Marige precision	
NETWORK AND WIRELESS CONNECTIVI	TY
GSM/GPRS/EDGE	850 / 900 / 1800 / 1900 MHz
	800 / 850 / 900 / 1900 / 2100 MHz
UMTS/HSPA+	
UMTS/HSPA+	800 / 1900 MHz (Verizon certified)
CDMA/EV-DO Rev. A	800 / 1900 MHz (Verizon certified)
CDMA/EV-DO Rev. A	800 / 1900 MHz (Verizon certified) 802.11b/g
CDMA/EV-DO Rev. A	800 / 1900 MHz (Verizon certified) 802.11b/g

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)	
Autonomous GNSS usage	
Non-GNSS use	Up to 24 hours
Standby	Up to 50 days

SYSTEM CPU, MEMORY, AND CAMERA

CPU	
Memory	4 GB user memory + SD slot (up to 32 GB), 256 MB RAM
Camera	

DISPLAY AND TOUCH PANEL

Display	4.2" VGA (640 x 480) LED transflective
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	
Water/dust ingress	IP65
Functional shock	.MIL-STD 810G Method 516.6 Procedure I
Drop	4 ft (1.22 m)
Vibration	MII-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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- 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 baseline sof 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. Stated accuracy is with Trimble Zephyr*M Model 2 GNSS antenna.

 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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Jl. Ciputat Raya No. 4F Kebayoran Lama, Jakarta 12240 Indonesia Telp: +62 21 7238381 Fax: +62 21 7238403

Email: info@gpslands.co.id Website: www.gpslands.co.id

TRIMBLE AUTHORIZED DISTRIBUTION PARTNER

NORTH AMERICA

Trimble Navigation Limited 10368 Westmoor Dr Westminster CO 80021

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

