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

Geo7X Geo7X Ferrifyre Version 5.65

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.



TRIMBLE GEO 7 SERIES

PHYSICAL DIMENSIONS		POWER AND BATTERY4
Geo 7X handheld (H x W x D)		Type
	(9.2 in x 3.9 in x 2.2 in)	Capacity
Geo 7X handheld with rangefinder	r	Charge time
GNSS, ORIENTATION, AND DISTA	ANCE!	Real time DGNSS usage (via inte
GNISS consor	L1/L2 GNSS receiver and antenna	Real time DGNSS usage (via Blu
Chineat	Trimble Maxwell TM 6 (up to 220 channels)	Autonomous GNSS usage
Systems	GPS, GLONASS, Galileo, BeiDou, QZSS	Non-GNSS use
	WAAS, EGNOS, MSAS, GAGAN, SBAS+	Standby
	Yes	SYSTEM CPU, MEMORY, AND
	NMEA, TSIP2	CPU
		Memory 4 GB use
	< 45 seconds (typically)	Camera
Real-time correction protocols	RTCM2.x/RTCM3.x/CMR+/CMRx	
·		DISPLAY AND TOUCH PANEL
Real-time Centimeter mode accura	icy ²	Display
Horizontal	1 cm + 1 ppm HRMS	Touch panel
Vertical	1.5 cm + 2 ppm VRMS	Brightness
Postprocessed Centimeter mode a	ccuracy ²	os
	1 cm + 1 ppm HRMS	Microsoft® Windows® Embedded
Vertical	1.5 cm + 1 ppm VRMS	English (U.S.), Chinese (Simplified Japanese, Korean, Spanish, Portu
H-Star [™] accuracy (real-time or post	tprocessed) 10 cm + 1 ppm HRMS	SYSTEM REQUIREMENTS
Code DGNSS accuracy (real-time)	75 cm + 1 ppm HRMS	Syncing with a PC requires Wind
	sed) 50 cm + 1 ppm HRMS	Professional with Service Pack 3
		mobile internet access.
		ENVIRONMENTAL USE
CenterPoint® RTX (via cellular)1		Operating ambient temperature
Horizontal		Storage temperature
	10 cm VRMS	Relative humidity
RangePoint [™] RTX (via cellular)¹	30 cm HRMS	Maximum operating altitude
ViewPoint RTX (via cellular) ¹	50 cm HRMS	Maximum storage altitude
		Water/dust ingress
	3-axis gyro, magnetometer, accelerometer	Functional shock
,	±1.5°	Drop
	±0.5°	Vibration
Roll accuracy	±0.5°	SOFTWARE COMPATIBILITY
D		Please refer to the Product Com
Distance sensor	Laser rangefinder module	(www.trimble.com/mappingGIS
		(www.tiirible.com/mappingdis
	Up to 120 m	
	±0.03 m	
NETWORK AND WIRELESS CONN		
	850 / 900 / 1800 / 1900 MHz	
UMTS/HSPA+	800 / 850 / 900 / 1900 / 2100 MHz	
Bluetooth profiles BT 2	2.0 +EDR (SPP, OPP, FTP, PAN, A2DP, DUN, HID)	Accuracy and reliability may be subject to a

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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

CAMERA

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

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

ed Handheld version 6.5 Professional. ed), Chinese (Traditional), French, German, Italian, uguese (Brazil), Russian.

dows 7; Windows Vista; or Windows XP Home or or later. Some field applications and services require

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	MIL-STD 810 G Method 514.6 Procedure I

mpatibility list. S/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 Timible 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.

Specifications subject to change without notice.



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