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™ 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.

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.
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 DISTANCE

GNSS sensor.............................................................L1/L2 GNSS receiver and antenna
Chipset..............................................................Trimble Maxwell 6 (up to 200 channels)
Systems1....................................................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..............................RTC3M/RTC3M.x/CMR+/CMRx

Code DGNSS accuracy (real-time)........<100 cm
Code DGNSS accuracy (postprocessed)..............50 cm + 1 ppm HRMS
SBAS accuracy.........................................................<100 cm

REAL-TIME CENIMETER MODE ACCURACY

Horizontal......................................................1 cm + 1 ppm HRMS
Vertical...........................................................1.5 cm + 2 ppm VRMS

Postprocessed Centimeter mode accuracy1
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

CenterPoint® RTX (via cellular)2,4 ..........................4 cm HRMS
Vertical...........................................................10 cm HRMS
RangePoint® RTX (via cellular).........................30 cm HRMS
ViewPoint® X (via cellular)..............................50 cm HRMS

ORIENTATION SENSORS

3-axis gyro, magnetometer, accelerometer
Inclination accuracy.0.5°
Roll accuracy.0.5°

Network and Wireless Connectivity

CDMA/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...............................................................802.11 b/g
Bluetooth profiles............................................BT 2.0 +EDR (SPP, OPP, FTP, PAN, A2DP, DUN, HID)

SOFTWARE COMPATIBILITY

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

POWER AND BATTERY

Type..............................................................Rechargeable, removable Li-Ion
Capacity..........................................................11.1 V / 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” VQA (640 x 480) LED transflective
Touch panel..........................................................Resistive touch panel with polarized light filter
Brightness............................................................280 cd/m²

ENVIRONMENTAL USE

Operating ambient temperature..................-4° to 160° F (-20° to 60° C)
Storage temperature.................................-22° to 131° F (-30° to 70° C)
Relative humidity.................................................95% non-condensing
Maximum operating altitude.......................40,000 ft (12,000 m)
Water/dust ingress................................................IP67
Functional shock...............................................MIL-STD 810G Method 516.6 Procedure I
Drop.................................................................MIL-STD 810G Method 516.6 Procedure I

SOFTWARE COMPATIBILITY

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

Specifications subject to change without notice.

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