Bringing together the essential functionality for productive GIS data collection in one device, the Trimble® GeoExplorer® 6000 series also delivers positioning accuracy in challenging GNSS situations such as under trees and near buildings with Trimble Floodlight™ technology. Wherever you work, it just works.

Accurate, productive, reliable data collection
Integrating both a GPS/GLONASS receiver and a dual frequency GNSS antenna, the Trimble GeoExplorer 6000 series delivers accuracy you can depend on to record new assets, or reliably navigate back to previously recorded locations.

Used with Trimble’s range of powerful field and office software, GeoExplorer 6000 series handhelds allow you to work faster and in more places than ever before. The Trimble GeoExplorer series can deliver down to centimeter accuracy—either postprocessed or in real time for the confidence the job is done right while still on site.

Designed for work, wherever you work
The Trimble GeoExplorer series works for the way you work. The built-in 5 megapixel autofocus camera, with geotagging capability, gives you one of the best ways to capture information about an asset, event, or site. A sunlight-optimized display maintains exceptional clarity in all outdoor conditions for crisp on screen text and images. And you can stay connected with an optional integrated 3.5G cellular modem for continuous network and Internet access to real-time map data, web-based services, Trimble VRS™ corrections, and live update of field information.

With the Trimble GeoExplorer 6000 series you get it all.

Key Features
- Trimble Floodlight satellite shadow reduction technology
- More positions and increased accuracy in tough environments
- Sunlight readable display
- For unmatched clarity in bright sunlight
- 3.5G cellular capability
- High-speed Internet connectivity in the field
- 5 megapixel autofocus camera
- Capture high quality photographs and link directly to features
- Field-swappable battery
- All day operation and the convenience of swap-and-go battery replacement

The Accuracy You Need Anywhere You Need It

Trees and buildings create “satellite shadows”, limiting the areas where you can reliably collect high-accuracy GNSS data. Using Trimble Floodlight technology, the GeoExplorer 6000 series continues to deliver productive, usable data under tree canopy or in urban canyons. You can work with fewer disruptions, meaning better data, faster, at less cost.
TRIMBLE GEOEXPLORER 6000 SERIES

PRODUCT MODELS

<table>
<thead>
<tr>
<th>GeoXH</th>
<th>GeoXT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>Decimeter/Centimeter</td>
</tr>
<tr>
<td>Floodlight</td>
<td>Yes</td>
</tr>
<tr>
<td>Cellular modem</td>
<td>Optional</td>
</tr>
<tr>
<td>Camera</td>
<td>5 MP</td>
</tr>
</tbody>
</table>

GNSS

Receiver: Trimble Maxwell™ 6 GNSS chipset
Channels: 220 channels
Systems: GPS, GLONASS™, WAAS/EGNOS/MSAS/GAGAN

Update rate: 1 Hz
Time to first fix: 45 s (typical)
NMEA-0183 support: Optional
Trimmble Floodlight technology: Optional
RTCMT support: RTCM2x4, RTCM3.x
CMR support: CMR/M, CMR/C, CMR/Mx

GeoX handhels

GPS: L1/C/A, L2/C, L2E
GLONASS: L1/C/A, L1P, L2/C, L2P

GeoXH handhels

GPS: L1/C/A, L1C/A, L1P

GNSS ACCURACY2

GeoXH Centimeter Edition
Real-time Centimeter output
Horizontal (external antenna)1: 1 cm + 1 ppm
Vertical (external antenna)1: 1.5 cm + 2 ppm
Horizontal (internal antenna)1: 2.5 cm + 1.2 ppm
Vertical (internal antenna): 4 cm + 2 ppm
Postprocessed Centimeter output
Horizontal (external antenna)1: 1 cm + 1 ppm
Vertical (external antenna)1: 1.5 cm + 1 ppm
Horizontal (internal antenna): 2.5 cm + 1.2 ppm
Vertical (internal antenna): 4 cm + 1.5 ppm

All GeoX and GeoXH configurations

Real-time and postprocessed H-Star (Horizontal RMS)
H-Star: 10 cm + 1 ppm

Common configurations

GPS: 75 cm + 1 ppm
SBAS1 (WAAS/EGNOS/MSAS): Typically < 1 m
Postprocessed DGNSS (Horizontal RMS)
Code: 50 cm + 1 ppm
Carrier (after 45 minutes): 1 cm + 2 ppm

ENVIRONMENTAL (MIL-STD-810G)
Drop shock: 1.2 m (4 ft) to plywood over concrete
Functional shock: Method 516.6 Procedure I
Vibration: Method 516.4 Procedure I
Relative humidity: 95% non-condensing
Maximum operating altitude: 3,658 m (12,000 ft)
Maximum storage altitude: 5,000 m (16,400 ft)

TEMPERATURE

Operation: –20 °C to +60 °C (–4 °F to +140 °F)
Storage: –30 °C to +70 °C (–22 °F to +158 °F)

INGRESS PROTECTION

Water/Dust: IP65

SIZE AND WEIGHT

Height: 234 mm (9.2 in)
Width: 99 mm (3.9 in)
Depth: 56 mm (2.2 in)
Weight (inc. battery): 925 g (2.0 lb)

BATTERY

Type: Rechargeable, removable Li-Ion
Capacity: 11.1 V 2.5 AH
Charge time: 4 hours (typical)

BATTERY RUN TIME3

GeoXH: 9 hours
GeoXT: 11 hours
GeoXH & Wi-Fi: 8 hours
GeoXT & Wi-Fi: 9.5 hours

CONNECTORS & INPUTS

Internal microphone and speaker
Mini USB connector
DE-9 serial via optional USB to serial converter
External power connector
SIM socket
SDHC card socket

CAMERA

Still camera
Still image format: JPG
Video mode: Up to VGA resolution
Video file format: WMV with audio

CELLULAR2 & WIRELESS2

UMTS/HSDPA: 850/900/1200 MHz
GPRS/EDGE: 850/900/1800/1900 MHz
Wi-Fi: 802.11 bg
Bluetooth: Version 2.1 + EDR

DISPLAY

Type: Transflective LED-backlit LCD
Size: 4.2” (diagonal)
Resolution: 480x640
Luminance: 280 cd/m2

HARDWARE

Processor: TI OMAP 3503
RAM: 256 MB
Flash: 2 GB
External storage: SDHC up to 32 GB

OPERATING SYSTEM

Android 4.0.x or higher

SOFTWARE

• Trimble ArcPad® software
• Trimble GPS Pathfinder® Office software
• Trimble Positions™ software suite
• Trimble GPScorrect® extension for Esri ArcPad software
• Trimble GPS Analyst® extension for Esri ArcGIS for Desktop software
• Trimble GPS Controller software
• Trimble GNSS Network software
• Trimble TrimPix® Pro system
• Custom applications built with a Mobile GIS Developer Community software development kit (SDK)
• Third-party NMEA-based applications

OPERATING CONDITIONS

Relative humidity: 95% non-condensing
Vibration: Method 514.6 Procedure I
Functional shock: Method 516.6 Procedure I
Drop shock: 1.2 m (4 ft) to plywood over concrete

CODE

50 cm + 1 ppm

POSTPROCESSED DGNSS (Horizontal RMS)

GeoXH: 5 cm + 1 ppm
GeoXT: 5 cm + 1 ppm

REAL-TIME DGNSS (Horizonal RMS)

GeoXH: 1 cm + 1 ppm
GeoXT: 1 cm + 1 ppm

H-STARC

GeoXH: 10 cm + 1 ppm
GeoXT: 10 cm + 1 ppm

OPTIONAL ACCESSORIES

• Trimble Zephyr Model 2 external GNSS antenna
• Trimble Tempest® external GNSS antenna
• Trimble Tempest™ external GNSS antenna
• Vehicle power supply
• 1.5 m & 5 m external antenna cable
• Range point for external antenna
• Carbon fiber monopole kit
• Backpack kit for external antenna
• Vehicle mount
• Hard case carry
• Null-modem cable
• USB to serial converter cable

SOFTWARE COMPATIBILITY

• Trimble Tassync software
• Trimble GPS Pathfinder® Office software
• Trimble Positions™ software suite
• Trimble GPScorrect® extension for Esri ArcPad software
• Trimble GPS Analyst® extension for Esri ArcGIS for Desktop software
• Trimble GPS Controller software
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• Trimble TrimPix® Pro system
• Custom applications built with a Mobile GIS Developer Community software development kit (SDK)
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1 GLONASS is enabled on GeoXT and GeoXH handheds with Floodlight technology enabled.
2 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 baselines of 100 km or less. Centimeter and H-Star accuracy is typically achieved within 2 minutes. Carrier postprocessed accuracy is limited to data collected within 10 km of the base station used for corrections.
3 Stated accuracy is for the Zephyr Model 2 antenna.

Specifications subject to change without notice.

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