

# TRIMBLE GEOEXPLORER 6000 SERIES

## 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

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.



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.

## 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.

# TRIMBLE GEOEXPLORER 6000 SERIES

## PRODUCT MODELS

	GeoXT	GeoXT
<b>Accuracy</b>	Decimeter/Centimeter	Submeter
<b>Floodlight</b>	Yes	Optional
<b>Cellular modem</b>	Optional	Optional
<b>Camera</b>	5 MP	5 MP

### GNSS

Receiver ..... Trimble Maxwell™ 6 GNSS chipset  
 Channels ..... 220 channels  
 Systems ..... GPS, GLONASS<sup>1</sup>  
 WAAS/EGNOS/MSAS/GAGAN  
 Update rate ..... 1 Hz  
 Time to first fix ..... 45 s (typical)  
 NMEA-0183 support ..... Optional  
 Trimble Floodlight technology ..... Optional  
 RTCM support ..... RTCM2.x/RTCM3.x  
 CMR support ..... CMR/CMR+/CMRx

### GeoXT handhelds

GPS ..... L1C/A  
 GLONASS ..... L1C/A, L1P

### GeoXH handhelds

GPS ..... L1C/A, L2C, L2E  
 GLONASS ..... L1C/A, L1P, L2C/A, L2P

### GNSS ACCURACY<sup>2</sup>

#### GeoXH Centimeter Edition

##### Real-time Centimeter output

Horizontal (external antenna)<sup>3</sup> ..... 1 cm + 1 ppm  
 Vertical (external antenna) ..... 1.5 cm + 2 ppm  
 Horizontal (internal antenna) ..... 2.5 cm + 1.2 ppm  
 Vertical (internal antenna) ..... 4 cm + 2 ppm

##### Postprocessed Centimeter output

Horizontal (external antenna)<sup>3</sup> ..... 1 cm + 1 ppm  
 Vertical (external antenna) ..... 1.5 cm + 1 ppm  
 Horizontal (internal antenna) ..... 2.5 cm + 1.2 ppm  
 Vertical (internal antenna) ..... 4 cm + 1.5 ppm

- GLONASS is enabled on GeoXT and GeoXH handhelds with Floodlight technology enabled.
- 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. Carrier postprocessed accuracy is limited to data collected within 10 km of the base station used for corrections.
- Stated accuracy is for the Zephyr Model 2 antenna.
- SBAS (Satellite Based Augmentation System). Includes WAAS; available in North America only, EGNOS; available in Europe only and MSAS; available in Japan only.
- Actual run time will vary with conditions and environment of use.
- Not available on all configurations. The GeoXH and GeoXT 3.5G edition handhelds are PTCRB certified and can operate on supported networks that do not require carrier certification. Consult with your local reseller for more information.
- Bluetooth and Wi-Fi type approvals are country specific. GeoExplorer 6000 series handhelds have Bluetooth and Wi-Fi approval in the U.S. and in most European countries. For further information please consult your local reseller.

### All GeoXH configurations

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

### All GeoXH and GeoXT configurations

Real-time DGNSS (Horizontal RMS)  
 Code ..... 75 cm + 1 ppm  
 SBAS<sup>4</sup> (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 514.6 Procedure I  
 Relative humidity ..... 95% non-condensing  
 Maximum operating altitude ..... 9,000 m (29,000 ft)  
 Maximum storage altitude ..... 12,000 m (40,000 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 TIME<sup>5</sup>

	GeoXT	GeoXT
<b>GNSS</b>	9 hours	11 hours
<b>GNSS &amp; Wi-Fi</b>	8 hours	9.5 hours
<b>GNSS &amp; cellular</b>	6.5 hours	7 hours
<b>Standby time (typical)</b>	50 days	50 days

### 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 mode ..... Autofocus 5 MP  
 Still image format ..... JPG  
 Video mode ..... Up to VGA resolution  
 Video file format ..... WMV with audio

### CELLULAR<sup>6</sup> & WIRELESS<sup>7</sup>

UMTS/HSDPA ..... 850/900/2100 MHz  
 GPRS/EDGE ..... 850/900/1800/1900 MHz  
 Wi-Fi ..... 802.11 b/g  
 Bluetooth ..... Version 2.1 + EDR

### DISPLAY

Type ..... Transflective LED-backlit LCD  
 Size ..... 4.2" (diagonal)  
 Resolution ..... 480x640  
 Luminance ..... 280 cd/m<sup>2</sup>

### HARDWARE

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

### LANGUAGES

English, Spanish, French, German, Italian, Portuguese (Brazilian), Chinese (Simplified), Korean, Japanese, Russian

### IN THE BOX

GeoExplorer 6000 series handheld, rechargeable battery pack, pouch and strap, USB data cable, AC power adaptor, screen protector kit, spare stylus & tether, documentation

### OPTIONAL ACCESSORIES

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

### SOFTWARE COMPATIBILITY

- Trimble TerraSync 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 Connector software
- Trimble TrimPix™ Pro system
- Custom applications built with a Mobile GIS Developer Community software development kit (SDK)
- Third party NMEA-based applications

© 2012–2014, Trimble Navigation Limited. All rights reserved. Trimble, the Globe & Triangle logo, GeoExplorer, and GPS Pathfinder are trademarks of Trimble Navigation Limited, registered in the United States and in other countries. Floodlight, GeoXH, GeoXT, GPS Analyst, GPSCorrect, H-Star, Maxwell, Positions, Tempest, TerraSync, Tornado, TrimPix, VRS, and Zephyr are trademarks of Trimble Navigation Limited. Microsoft and Windows Mobile are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. 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. All other trademarks are the property of their respective owners. PN 022501-285E (03/14)

Specifications subject to change without notice.



Your Complete Source for Surveying, Construction & Mapping Equipment

email: [cbt@cityblueprintoftoledo.com](mailto:cbt@cityblueprintoftoledo.com)

www: [www.cityblueprintoftoledo.com](http://www.cityblueprintoftoledo.com)

**SALES SERVICE RENTAL TRAINING**

3455 Briarfield Blvd - Suite D  
 Maumee, OH 43537

toll free: (800) 548-1503  
 ph: (419) 243-7271  
 fax: (419) 243-6418