# 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

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
Accuracy	Decimeter/Centimeter	Submeter
Floodlight	Yes	Optional
Cellular modem	Optional	Optional
Camera	5 MP	5 MP
Channels	Trimble Maxwell™ 6 G WAAS/EGNOS/ ort. technology RTC CM	. 220 channels iPS, GLONASS <sup>1</sup> /MSAS/GAGAN 1 Hz 45 s (typical) Optional Optional M2.x/RTCM3.x
GLONASS GeoXH handhelds GPS	L L1C/A, L	L1C/A, L1P 1C/A, L2C, L2E
Vertical (external a Horizontal (interna	Edition	.5 cm + 2 ppm cm + 1.2 ppm

1 GLONASS is enabled on GeoXT and GeoXH handhelds with Floodlight technology enabled.

Accuracy and reliability may be subject to anomalies due to multipath,

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

- 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.

Postprocessed Centimeter output

- 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
- 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
- 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 you

#### All GeoXH configurations

Real-time and postprocessed H-Star (Horizontal RMS) 

All GeoXH and GeoXT configurations Real-time DGNSS (Horizontal RMS)

........75 cm + 1 ppm Code SBAS<sup>4</sup> (WAAS/EGNOS/MSAS) . . . . . typically < 1 m

Postprocessed DGNSS (Horizontal RMS) 

#### **ENVIRONMENTAL (MIL-STD-810G)**

Drop shock . . . . 1.2 m (4 ft) to plywood over concrete Functional shock..... Method 516.6 Procedure I 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**

# SIZE AND WEIGHT

Height	1)
Width	1)
Depth	1)
Weight (inc. battery)	)

#### **RATTERY**

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
GNSS	9 hours	11 hours
GNSS & Wi-Fi	8 hours	9.5 hours
GNSS & cellular	6.5 hours	7 hours
Standby time (typical)	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
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	
Luminance	280 cd/m2

#### **HARDWARE**

Processor TI OMAP 3503
RAM
Flash
External storage SD/SDHC up to 32 GI

#### **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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> Pro system
- Custom applications built with a Mobile GIS Developer Community software development kit
- Third party NMEA-based applications

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Specifications subject to change without notice





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