



### KEY FEATURES

Real-time submeter GPS with integrated SBAS and EVEREST multipath technology

Trimble DeltaPhase technology provides 50 cm accuracy after postprocessing

High-resolution VGA display for crisp and clear map viewing

Bluetooth and wireless LAN connectivity options

1 GB onboard storage plus SD slot for removable cards

Windows Mobile version 6.1 operating system

Rugged handheld with all-day battery



### YOUR TOTAL GPS PLATFORM FOR FIELD DATA COLLECTION

The Trimble® GeoXT™ handheld, from the GeoExplorer® 2008 series, is the essential tool for maintaining your GIS. A high performance, GPS receiver combined with a rugged handheld computer, the GeoXT handheld is ideal for use by utility companies, local government organizations, federal agencies, or anyone managing assets or mapping critical infrastructure who needs accurate data to do the job right—the first time.

Delivering consistent submeter accuracy in real-time and 50 cm accuracy after postprocessing, the GeoXT handheld is the most dependable solution designed specifically with your GIS in mind.

#### Real-world submeter performance

The GeoXT handheld is optimized to provide reliable location data when and where you need it. With advanced features like EVEREST™ multipath rejection technology, the GeoXT handheld records quality GPS positions even under canopy, in urban canyons, and in all the everyday environments you work in.

If you need submeter performance in real time, you can use WAAS, EGNOS, or MSAS corrections, or use the built-in Bluetooth® wireless technology to connect to a Trimble GeoBeacon™ receiver.

And if you need that extra edge in precision, you can collect data with Trimble TerraSync™ software or the Trimble GPSCorrect™ extension for ESRI ArcPad software, and then postprocess it back in the office with Trimble GPS Pathfinder® Office software or the GPS Analyst™ extension for ESRI ArcGIS Desktop software. These office processing suites use the new Trimble DeltaPhase™ technology to achieve 50 cm accuracy for GPS code measurements after postprocessing, and even higher levels of postprocessed accuracy are possible when you log GPS carrier data for extended periods.

#### Packed full of power

With a powerful 520 MHz processor, 128 MB RAM, and 1 GB of onboard storage, the GeoXT handheld is a high performance device designed to work as hard as you do. The handheld gives you all the power you need to work with maps and large data sets in the field, and its high resolution VGA display allows for crisp and clear viewing of your data.

The GeoXT handheld is powered by the industry-standard Windows Mobile® version

6.1 operating system so you can choose a software solution designed for your field requirements, whether off-the-shelf or purpose-built.

The Windows Mobile 6.1 operating system includes familiar Microsoft® software, including Word Mobile, Excel Mobile, and Outlook® Mobile, giving you all the tools you need for a seamless exchange of data between the field and the office.

#### Built for the field

The GeoXT handheld has an integrated battery, good for a full day's work; simply charge the battery overnight and you're ready to go again. The GeoXT handheld will last the distance, and its rugged design can take a lot of punishment. Rain, hail or shine, it's built to keep working, whatever the weather throws at you.

#### Convenient connectivity

With the GeoXT handheld you have the flexibility to work exactly the way you want to. Do you need to access the Internet or your organization's secure network to get the most up-to-date data? No problem—with the GeoXT handheld you have built-in wireless LAN and Bluetooth technology to ensure you stay connected.

With Bluetooth wireless technology the GeoXT handheld also offers wireless connection to external devices such as Bluetooth-enabled laser rangefinders and barcode scanners for convenient cable-free solutions that keep you productive in the field.

Cellular connectivity can be added to the GeoXT handheld via the TDL 3G cellular modem. Connecting via wireless LAN or Bluetooth, the TDL 3G provides continuous network/internet access to real-time map data, web-based services, VRS™ corrections, and live update of field information.

#### Accuracy you can rely on

Accurate information is crucial to making informed decisions and improving the way you do business. The GeoXT handheld delivers consistent submeter accuracy in real-time and 50 cm accuracy after postprocessing, so you know your GIS has the information that others can depend on to do the job right—this time, next time and every time.

# GeoXT HANDHELD

## STANDARD FEATURES

### System

- Windows Mobile 6.1 (Classic edition)
- VGA display (480 x 640), sunlight-readable color touchscreen
- Integrated Bluetooth 1.2 wireless technology
- Integrated 802.11b/g wireless LAN
- Ergonomic cable-free handheld
- Rugged and water-resistant design
- All-day internally rechargeable Li-ion battery
- Marvell 520 MHz XScale processor
- 128 MB RAM
- 1 GB non-volatile Flash data storage
- Sealed SD/SDHC card slot
- Integrated speaker and microphone

### GPS

- Integrated high-performance GPS/SBAS<sup>1</sup> receiver and L1 antenna
- Submeter real-time or 50 cm postprocessed accuracy
- RTCM and CMR real-time correction support
- TSIP and NMEA protocol support
- EVEREST multipath rejection technology

### Standard Software

- GPS Controller for control of integrated GPS and in-field mission planning
- GPS Connector for connecting integrated GPS to external ports
- Microsoft Office Mobile
- Transcriber (handwriting recognition)

### Standard Accessories

- Support module
- AC Power supply with International adapter kit
- USB data cable
- Stylus (x 2)
- Screen protectors (2-pack)
- Quick Start Guide
- Getting Started CD
- Hand strap
- Pouch

## OPTIONAL FEATURES

### Optional Software

- TerraSync software
- Trimble GPSCorrect extension for ESRI ArcPad software
- GPS Pathfinder Tools Software Development Kit (SDK)
- GPS Pathfinder Office software
- Trimble GPS Analyst™ extension for ESRI ArcGIS Desktop software
- TrimPix™ Pro system

### Optional Accessories

- TDL 3G cellular modem accessory
- Power/serial clip (9-pin RS-232 serial connector and power input)
- Vehicle power adaptor<sup>2</sup>
- Null modem cable<sup>2</sup>
- Backpack kit
- Hard carry case
- Tempest™ antenna
- External patch antenna
- Pole-mountable ground plane
- Baseball cap with patch antenna pocket
- 2 meter range pole
- Range pole bracket
- GeoBeacon receiver
- Anti-glare screen protectors (2-pack)

## TECHNICAL SPECIFICATIONS

### Physical

Size . . . . . 21.5 cm x 9.9 cm x 7.7 cm (8.5 in x 3.9 in x 3.0 in)  
Weight . . . . . 0.80 kg (1.76 lbs) with battery  
Processor . . . . . 520 MHz Marvell PXA-270 XScale processor  
Memory . . . . . 128 MB RAM and 1 GB internal Flash storage  
Battery . . . . . Internal 7500 mAh lithium-ion  
27.8 Watt-hours, rechargeable in unit

### Power usage

Low (no GPS or backlight) . . . . . 1.8 Watts  
Normal (with GPS and backlight<sup>3</sup>) . . . . . 2.6 Watts  
High (with GPS, backlight<sup>3</sup>, Bluetooth, and wireless LAN)<sup>4</sup> . . . . . 3.7 Watts

### Environmental

Operating temperature . . . . . -20 °C to +60 °C (-4 °F to 140 °F)  
Storage temperature . . . . . -30 °C to +70 °C (-22 °F to 158 °F)  
Casing . . . . . Dust-proof and resistant to heavy wind-driven rain per IP 65 standard  
Slip-resistant grip, shock and vibration resistant  
Drop . . . . . 1.2 m (4 ft) MIL-STD-810F, Method 516.5, Procedure IV

### Input/Output

Expansion . . . . . SD card slot (SD or SDHC storage cards)  
Display . . . . . 8.9 cm (3.5 in) VGA (480 x 640 pixel) TFT, 16 bit (65,536) colors  
LED backlight  
Interface . . . . . Touch screen, 10 hardware control keys, power status LED  
Audio system events, warnings, and notifications  
Soft Input Panel (SIP) virtual keyboard and handwriting recognition software  
Audio . . . . . Microphone and speaker, record and playback utilities  
I/O . . . . . USB 1.1 client via support module  
Serial via optional 9-pin RS-232 power/serial clip adaptor  
Radios<sup>5</sup> . . . . . Bluetooth 1.2, Wireless LAN 802.11b/g

### GPS

Channels . . . . . 14 (12 L1 code and carrier, 2 SBAS)  
Integrated real-time . . . . . SBAS<sup>1</sup> (dual-channel tracking)  
Update rate . . . . . 1 Hz  
Time to first fix . . . . . 30 seconds (typical)  
Protocols  
Data output . . . . . TSIP, NMEA-0183 v3.0 (GGA, VTG, GLL, GSA, ZDA, GSV, RMC)  
Real-time corrections . . . . . RTCM 2.x, RTCM 3.0, CMR, CMR+

### Accuracy (HRMS)<sup>6</sup> after differential correction

Code postprocessed . . . . . 50 cm  
Carrier postprocessed<sup>7</sup>  
With 10 minutes tracking satellites . . . . . 20 cm  
With 20 minutes tracking satellites . . . . . 10 cm  
With 45 minutes tracking satellites . . . . . 1 cm  
Real-time (SBAS<sup>1</sup> or external correction source) . . . . . Submeter

- 1 SBAS (Satellite Based Augmentation System). Includes WAAS available in North America only, EGNOS available in Europe only, and MSAS available in Japan only.
- 2 Power/serial clip also required.
- 3 With backlight at default setting (50% brightness).
- 4 Power draw will vary depending on radio usage.
- 5 Bluetooth and wireless LAN type approvals are country specific. GeoExplorer 2008 series handhelds have Bluetooth and wireless LAN approval in the U.S. and in most European countries. For further information please consult your local reseller.
- 6 Horizontal Root Mean Squared accuracy, 1-sigma (68%). Except in conditions where most GPS signals are affected by trees, or buildings, or other objects. Except when using VRS corrections, accuracy varies with proximity to base station by +1 ppm for code postprocessing and real-time.
- 7 Postprocessed carrier accuracy varies with proximity to base station by +2 ppm. 45 minute carrier capability applies only to the GPS Pathfinder Office software and is limited to 10km from the base station.

Specifications subject to change without notice.

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