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### 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® 3000 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 Trimble 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 Trimble 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.

# GEOEXPLORER 3000 SERIES GEOXT HANDHELD

## Standard Features

### system

- Windows Mobile 6.1 (Classic edition), sunlight-readable display
- VGA display (480 x 640), wireless technology
- Integrated Bluetooth 1.2 wireless LAN
- Integrated 802.11b/g wireless handheld
- Ergonomic cable-free design
- 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 1 receiver SBAS antenna
- Submeter real-time or 50 cm postprocessed
- RTCM and CMR real-time correction support
- TSIP and NMEA protocol support
- MicroUSB connection technology

### standard software

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

### standard Accessories

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

### optional software

- Trimble TerraSync software
- Trimble GPScorrect extension for Esri ArcPad software
- Trimble GPS Pathfinder Tools Software Development Kit
- Trimble GPS Pathfinder Office software
- Trimble™ Extension for ArcGIS Desktop software
- Trimble Pro SitePix

### optional Accessories

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

## Technical Specifications

### Physical

- Size: 21.5 cm x 9.9 cm x 1.76 cm (8.47 in x 3.9 in x 0.69 in)
- Weight: 0.80 kg (1.76 lbs)
- Processor: 520 MHz Marvell PXA-270
- Memory: 128 MB RAM
- Battery: Internal 7500 mAh lithium-ion, 27.8 Watt-hours, rechargeable
- Power usage:
  - Low (no GPS or backlight): 1.8 Watts
  - Normal (with GPS and backlight): 2.6 Watts
  - High (with GPS, backlight, and wireless LAN): 3.1 Watts

### environmental

- Operating temperature: -20 °C to +60 °C
- Storage temperature: -30 °C to +70 °C
- Casing: Dust-proof and resistant to heavy wind-driven rain per IP 65 standard
- Drop accuracy: Slip-resistant grip, shock and vibration resistant
- Drop: 1.2 m (4 ft) MIL-STD-810F, M

### input/output

- Expansion: SD card slot (SD card)
- Display: 8.9 cm (3.5 in) LED backlight
- External ports: Touch screen, 10 hardware control keys, power status LED
- Audio system events, warnings, and notifications: Soft Input Panel (SIP) virtual keyboard and microphone and speaker, record and playback utilities
- I/O: USB 1.1 client via power/serial
- Serial via optional 9-pin RS-232 power/serial
- Bluetooth 1.2, Wireless LAN 802.11b/g

### GPS

- Channels: 14 (12 L1 code a)
- Integrated real-time SBAS (dual-channel)
- Update rate: 1 Hz
- Time to first fix: 30 seconds (typical)
- Protocols: TSIP, NMEA-0183 v3.0 (GGA, VTG, GLL, 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: 20 cm
- With 45 minutes tracking satellites: 10 cm
- With 20 minutes tracking satellites: 10 cm
- With 45 minutes tracking 1 cm satellites: 10 cm

- 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 3000 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 10 km from the base station.

Specifications subject to change without notice.

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YOUR LOCAL TRIMBLE OFFICE OR REPRESENTATIVE

### NORTH & SOUTH AMERICA

Trimble Navigation Limited  
10355 Westmoor Drive  
Suite #100  
Westminster, CO 80021  
USA  
+1-720-587-4574 Phone  
+1-720-587-4878 Fax

### EUROPE & AFRICA

Trimble Germany GmbH  
Am Prime Parc 11  
65479 Raunheim  
GERMANY  
+49-6142-2100-0 Phone  
+49-6142-2100-550 Fax

### ASIA-PACIFIC & MIDDLE EAST

Trimble Navigation  
Singapore PTE Limited  
80 Marine Parade Road  
#22-06 Parkway Parade  
Singapore, 449269  
SINGAPORE  
+65-6348-2212 Phone  
+65-6348-2232 Fax



www.trimble.com  
store.trimble.com