GeoXT handheld

KEY FEATURES

High-performance submeter GPS with integrated SBAS

Windows Mobile 2003 software for Pocket PCs, allowing maximum flexibility in software choice

Rugged handheld with all-day battery

Advanced color TFT display with backlight

Integrated Bluetooth for wireless connectivity

THE TOTAL GPS PLATFORM FOR ALL YOUR GIS FIELD REQUIREMENTS

The GeoXT™ handheld, from the GeoExplorer® series, is an essential tool for maintaining your GIS. It's all you need to collect location data, keep existing GIS information up to date, and even mobilize your GIS.

The unique GeoExplorer series combines a Trimble® GPS receiver with a rugged field-ready handheld computer running the Microsoft® Windows Mobile™ 2003 software for Pocket PCs. Plus there's an internal battery that easily lasts for a whole day of GPS operation. The result is tightly integrated, tough, and incredibly powerful.

High-accuracy integrated GPS

The GeoXT is optimized to provide the reliable, high-accuracy location data you need. Advanced features like EVEREST™ multipath rejection technology let you work under canopy, in urban canyons, or any place where accuracy is crucial.

Need submeter accuracy in real time? Use corrections from a satellite-based augmentation system (SBAS) like WAAS or EGNOS or use the integrated Bluetooth® radio to connect to a Trimble GeoBeacon™ receiver. Want to get that extra edge in precision? Collect data with Trimble's TerraSync™ software or the GPScorrect™ extension for ESRI ArcPad software, and then postprocess back in the office.

Because the GPS receiver and antenna are built into the handheld computer, it's never been easier to use GPS in your application. The system is more than just cable-free: it's a totally integrated solution.

Optimized productivity

Take advantage of the power and flexibility of Windows Mobile software for Pocket PCs by choosing from the most comprehensive range of field software available—whether off-the-shelf or purpose-built. Whatever your needs, Windows Mobile lets you choose a software solution to match your workflow.

Windows Mobile features familiar Microsoft productivity tools, including Pocket Word, Pocket Excel, and Pocket Outlook®. Pocket Outlook lets you synchronize e-mails, contacts, appointments, and data with your office computer, so whether you're in the office or in the field, you're always up to date.

Go wireless with integrated Bluetooth for connection to other Bluetooth-enabled devices, including the GeoBeacon receiver, cell phones, and PCs. You also have the option to use the USB support module to connect to a desktop computer, or use the optional serial clip for cabled connections in the field.

Receive a free copy of Microsoft Streets & Trips[1] 2005 software with your GeoXT handheld, and take advantage of comprehensive map and travel information for easy navigation and route planning.

All the memory you need

There's plenty of storage space in the GeoXT for all your GIS data. The fast processor and large memory mean even big graphics files load quickly—and they're crisp and crystal-clear on the advanced TFT outdoor color screen.

From data collection to data maintenance, to mobile GIS and beyond ... the GeoXT is the handheld of choice.

1 Microsoft Streets & Trips 2005 software available in U.S. and Canada; Microsoft AutoRoute™ 2005 software in Europe.

Trimble.

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STANDARD FEATURES

System
- Microsoft Windows Mobile 2003 software for Pocket PCs
- 206 MHz Intel StrongARM processor
- 512 MB non-volatile Flash data storage
- Outdoor color display
- Ergonomic cable-free handheld
- Rugged and water-resistant design
- All-day internally rechargeable battery
- Bluetooth wireless

GPS
- Submeter accuracy
- Integrated SBAS[1]
- RTCM real-time correction support
- NMEA and TSIP protocol support
- EVEREST multipath rejection technology

Software
- GPS Controller for control of integrated GPS and in-field mission planning
- GPS Connector for connecting integrated GPS to external ports
- Microsoft ActiveSync®, Calculator, File Explorer, Internet Explorer, Pictures, Pocket Excel, Pocket Outlook (Inbox, Calendar, Contacts, Notes, Tasks), Pocket Word, Windows® Media Player
- Bluetooth File Transfer
- Sprite Pocket Backup
- Transcriber (handwriting recognition)
- Microsoft Streets & Trips/AutoRoute 2005 software

Accessories
- Support module with power supply and USB data cable
- Getting Started Guide
- Companion CD includes Outlook 2002 and ActiveSync 3.7.1
- Hand strap
- Pouch
- Stylus

OPTIONAL FEATURES

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 software

Accessories
- Serial clip for field data and power input
- Vehicle power adaptor[2]
- Portable power kit[2]
- Hurricane antenna
- External patch antenna
- Pole-mountable ground plane
- Baseball cap with antenna sleeve
- GeoBeacon receiver
- Hard carry case
- Null modem cable[2]
- Backpack kit

TECHNICAL SPECIFICATIONS

Physical
Size . . . . .21.5 cm × 9.9 cm × 7.7 cm (8.5 in × 3.9 in × 3.0 in)
Weight . . . . .0.72 kg (1.59 lb) with battery
Processor. . . . . 206 MHz Intel StrongARM SA-1110
Memory. . . . . 64 MB RAM and 512 MB internal Flash disk
Power
    Low (no GPS). . . . . 0.6 Watts
    Normal (with GPS) . . . . 1.4 Watts
    High (with GPS, backlight, and Bluetooth). . . . . 2.5 Watts
Battery . . . . .Internal lithium-ion, rapidly rechargeable in unit
21 Watt-hours

Environmental
Temperature
    Operating . . . . −10 °C to +50 °C (14 °F to 122 °F)
    Storage. . . . . −20 °C to +70 °C (–4 °F to 158 °F)
Humidity . . . . .99% non-condensing
Casing . . . . .Wind-driven rain and dust-resistant per IP 54 standard
Slip-resistant grip, shock and vibration resistant

Input/output
Communications. . . . . Bluetooth for wireless connectivity
USB v1.1 compatible via support module
Serial via optional DE9 serial clip adaptor
Bluetooth[3] Profiles
    Client and host support. . . . . . . .Serial Port, File Transfer (using OBEX)
    Client support only . . . . Dial-Up Networking, Lan Access
    Host support only. .Basic Imaging, Object Push
Display. . . . . .Advanced outdoor TFT, 240 × 320 pixel
65,536 colors, with backlight
Audio . . . . Microphone and half duplex speaker
Record and playback utilities
Interface . . . . Touch screen, Soft Input Panel (SIP) virtual keyboard
2 hardware control keys plus 4 programmable touch buttons
Handwriting recognition software
Audio system events, warnings, and notifications

GPS
Channels . . . . .12 (L1 code and carrier)
Integrated real-time . . . . .SBAS[1]
Update rate . . . . .1 Hz
Time to first fix. . . . . 30 seconds (typical)
Protocols . . . . TSIP, NMEA (GGA, VTG, GLL, GSA, ZDA, GSV, RMC)

Accuracy (HRMS)[4] after differential correction
Postprocessed . . . . Submeter
Carrier postprocessed[5]
    With 10 minutes tracking satellites . . . . 30 cm
Real-time. . . . . Submeter

1 SBAS (Satellite Based Augmentation System). Includes WAAS (Wide Area Augmentation System) available in North America only. And EGNOS (European Geostationary Navigation Overlay System) available in Europe only.
2 Serial clip also required.
3 Bluetooth type approvals are country specific. GeoExplorer series handhelds have Bluetooth approval in the U.S. and EU. For other countries please consult your local Distributor.
4 Horizontal Root Mean Squared accuracy. Requires data to be collected with minimum of 4 satellites, maximum PDOP of 6, minimum SNR of 39 dBHz, minimum elevation of 15 degrees, and reasonable multipath conditions. Ionospheric conditions, multipath signals or obstruction of the sky by buildings or heavy tree canopy may degrade precision by interfering with signal reception. Accuracy varies with proximity to base station by +1 ppm for postprocessing and real-time.
5 Accuracy varies with proximity to base station by +5 ppm.

Specifications subject to change without notice.

Bluetooth®

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