For high-accuracy GIS data collection and asset relocation, the Trimble® GeoXH™ handheld is the ultimate integrated solution. Engineered with H-Star™ technology, the GeoXH handheld delivers decimeter (10 cm / 4 inch) to subfoot (<30 cm) accuracy when you need it, making it the ideal device for electric and gas utilities, water and wastewater services, land reform projects, and other applications where on-the-spot positioning is crucial.

The unique GeoExplorer® 2008 series combines a Trimble GPS receiver with a rugged handheld computer, built for all-day use and packed with connectivity options. Technology this clever has never been more convenient.

**Subfoot accuracy when you need it**
When your GIS database requires the highest levels of accuracy, the GeoXH handheld is the answer. Using revolutionary Trimble H-Star technology, the GeoXH handheld delivers real-time subfoot accuracy with the internal antenna, and decimeter accuracy with an optional Tornado™ external antenna. Back-office data processing is eliminated, streamlining asset inventories and as-built mapping jobs.

Need to relocate assets in the field? The GeoXH handheld has you covered. Buried and hidden assets can be tracked down with ease, as the real-time high accuracy gets you straight to the point. Cables and pipes can be excavated without wasted effort or risk of damage to nearby assets. When you postprocess with Trimble office software you can be confident of achieving decimeter level accuracy with greater consistency at longer baselines, in tougher environments, and with shorter occupations.

**Packed full of power**
With a powerful 520 MHz processor, 128 MB RAM, and 1 GB of onboard storage, the GeoXH 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 GeoXH handheld is powered by the industry-standard Windows Mobile® version 6 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 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.

**Get the data you need, when you need it**
With the GeoXH handheld you have the flexibility to work exactly the way you want to. Use the built-in wireless LAN connection to access your organization’s secure network and get the most up-to-date information. You can also wirelessly connect to other 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 GeoXH 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.

**Built for the field**
The GeoXH 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 GeoXH 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.

**When accuracy is critical**
Rugged design and powerful functionality are the hallmarks of the GeoExplorer series. And now with H-Star technology providing decimeter to subfoot accuracy in real time, the 2008 series GeoXH handheld is your ultimate solution for high-accuracy asset management.

When accuracy is critical, the GeoXH handheld delivers—with unprecedented efficiency and reliability, when and where you need it.
STANDARD FEATURES

System
- Windows Mobile 6 (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 5DSDHC card slot
- Integrated speaker and microphone

GPS
- Integrated high-performance GPS/SAICS receiver and L1/L2 antenna
- H-Star technology for subfoot (<30 cm) real-time accuracy or decimeter (10 cm / 4 inch) accuracy after postprocessing
- Decimeter accuracy is also available in real-time with the optional external Tornado antenna
- RTCM and NMEA protocol support
- ESSR™ 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 (x2)
- 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 modern accessory
- Power/serial clip (9-pin RS-232 serial connector and power input)
- Vehicle power adaptor
- Null modem cable
- Backpack kit
- Hard carry case
- Tornado antenna
- 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 ........................................ 0.81 kg (1.79 lbs) with battery
- Processor ...................................... Marvell PXA270 XScale processor
- Memory ....................................... 128 MB RAM and 1 GB internal Flash storage
- Battery ....................................... Internal 7500 mAh lithium-ion
- Power usage .................................... Low (no GPS or background) .................................... 1.8 Watts
- Normal (with GPS and background) ......................... 3.2 Watts
- High (with GPS, background, Bluetooth, and wireless LAN) ............... 4.3 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)
- Case: 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 pixels) TFT, 16 bit (65,536 colors)
- 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
- Radio ........................................ Bluetooth 1.2, Wireless LAN 802.11b/g

GPS
- Channels .................................... 26 (12 L1 code and carrier, 12 L2 carrier, 2 SBAS)
- Integrated real-time accuracy .................................. SBAS1 (dual-channel tracking)
- Update rate ...................................... 1 Hz
- Time to first fix .................................. 30 seconds (typical)
- Protocols ........................................... TSSP, NMEA-0183 v3.0 (GGA, VTG, GLL, GSA, ZDA, GSV, RMC)
- Real-time corrections ........................................... RTCM 2.2, RTCM 3.0, CMR, CMR+1

Accuracy (HRMS) 1 after differential correction
- Real-time positioning
  - H-Star with internal antenna (within a VRS network, or <80 km). Sub-foot (<30 cm)
  - H-Star with optional Tornado antenna
    - Short baseline (within a VRS network, or <30 km) ........................................... 10 cm
    - Long baseline (30-80 km) ........................................... Sub-foot (<30 cm)
  - Code corrections (SBAS1 or external correction source) Sub-meter
  - Postprocessed positioning
    - H-Star horizontal accuracy ....................................... 10 cm ± 1 ppm
    - Carrier postprocessed accuracy with 45 minutes tracking satellites . . . 1 cm ± 2 ppm16
  - Code postprocessed ........................................... 50 cm

© 2008-2010, 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. EVEREST, GeoXH, GeoXH, GPS Analyst, GPSCorrect, H-Star, TerraSync, TrimPitch, and VRS are trademarks of Trimble Navigation Limited. 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. Microsoft, Outlook, and Windows Mobile are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. All other trademarks are the property of their respective owners. PN 022501-162E (03/10)

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 Navigation Europe
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
+65-6348-2222 Fax

www.trimble.com
store.trimble.com