

## Rental – GPS Handheld Receiver

### Trimble GeoXH Handheld

The GeoXH™ Handheld is Trimble's top-of-the-line solution for high accuracy GIS data collection. Engineered with H-Star™ technology, the GeoXH Handheld delivers the subfoot (30 cm) accuracy required by electric and gas utilities, water and wastewater services, land reform projects, and other applications where on-the-spot positioning is crucial. The unique GeoExplorer® series combines a Trimble® GPS receiver with a rugged handheld computer, built for all-day use and packed with connectivity options.

#### FEATURES

##### System

- Microsoft Windows Mobile 5.0 software, allowing maximum flexibility in software choice
- 416 MHz Intel X-Scale processor
- 512 MB onboard memory plus removable SD memory
- Outdoor color display
- Ergonomic cable-free handheld
- Rugged and water-resistant design
- All-day internally rechargeable battery
- Bluetooth wireless
- 802.11b wireless LAN

##### GPS

- H-Star technology for subfoot (30 cm) postprocessed accuracy
- Submeter accuracy in real-time
- Integrated SBAS<sup>1</sup>
- 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, Excel Mobile, Outlook® Mobile (Inbox, Calendar, Contacts, Notes, Tasks), Word Mobile, Windows® Media Player
- Transcriber (handwriting recognition)
- Trimble Navigator Sample Application software
- TrimPix software for wireless camera support. Download from [www.trimble.com/trimpix.asp](http://www.trimble.com/trimpix.asp)



Trimble GeoXH Handheld GPS Receiver Rental Kit

#### ACCESSORIES

- TerraSync software installed
- Shipped with GPS Pathfinder Office software
- Support module with power supply and USB data cable
- Getting Started Guide
- Getting Started Disc
- Hand strap
- Pouch
- Stylus kit
- Hard carry case
- Hurricane antenna kit (available if requested)
- 2 meter range pole (available if requested)
- Range pole bracket (available if requested)

**CALL GEOTECH TODAY (800) 833-7958**

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# Rental – GPS Handheld Receiver

## Trimble GeoXH Handheld

### SPECIFICATIONS

#### Physical

<b>Size</b> .....	21.5 cm x 9.9 cm x 7.7 cm (8.5 in x 3.9 in x 3.0 in)
<b>Weight</b> .....	0.78 kg (1.76 lb) with battery
<b>Processor</b> .....	416 MHz Intel PXA-270 X-Scale
<b>Memory</b> .....	64 MB RAM and 512 MB internal Flash disk

#### Power

Low (no GPS or backlight).....	1.5 Watts
Normal (with GPS and backlight).....	2.7 Watts
High (with GPS, backlight, Bluetooth, and wireless LAN).....	3.7 Watts <sup>3</sup>
<b>Battery</b> .....	Internal 6800 mAh lithium-ion, rechargeable in unit 25 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)

<b>Casing</b> .....	Wind-driven rain and dust-resistant per IP 54  Slip-resistant grip, shock and vibration resistant
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#### Input/output

<b>Communications</b> .....	Bluetooth <sup>4</sup> , 802.11b wireless LAN  USB client v1.1 compliant <sup>5</sup> via support module  Serial via optional DE9 serial clip adaptor  Ethernet 10/100 BaseT compatible via support module
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#### Bluetooth Profiles

Client and host support .....	Serial Port, Object Push
Client support only .....	Dial-Up Networking
<b>Host support only</b> .....	File Transfer (using OBEX)
<b>Display</b> .....	Advanced outdoor TFT, 240-320 pixel 65,536 colors, with backlight

<b>Audio</b> .....	Microphone and speaker, record and playback utilities
<b>Interface</b> .....	Touch screen, Soft Input Panel (SIP) virtual keyboard  11 hardware control keys, handwriting recognition software  Audio system events, warnings, and notifications

#### GPS

<b>Channels</b> .....	12 (L1 code and carrier/L2 carrier) <sup>6</sup>
<b>Integrated real-time</b> .....	SBAS <sup>1</sup>
<b>Update rate</b> .....	1 Hz
<b>Time to first fix</b> .....	30 seconds (typical)
<b>Protocols</b> .....	TSIP, NMEA (GGA, VTG, GLL, GSA, ZDA, GSV, RMC)

#### Accuracy

(HRMS)<sup>7</sup> after differential correction

##### H-Star postprocessed<sup>8</sup>

With internal antenna .....	30 cm
With optional Zephyr antenna .....	20 cm

##### Code postprocessed .....

Submeter

##### Carrier postprocessed<sup>9</sup>

With 20 minutes tracking satellites ...	10 cm
With 45 minutes tracking satellites ...	1 cm

##### Real-time

(SBAS<sup>1</sup> or external RTCM source) .....

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 Power draw will vary depending on radio usage

4 Bluetooth and wireless LAN type approvals are country specific. GeoExplorer 2005 series handhelds have Bluetooth and wireless LAN approval in the U.S. and EU. For other countries please consult your local Reseller.

5 Fully compatible with USB v2.0 computers.

6 L2 capability requires purchase of the optional Zephyr antenna kit.

7 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.

8 Requires H-Star data to be collected for up to 2 minutes. Requires a minimum of three good quality dual frequency reference stations within 200 km, or one good quality dual frequency reference station within 80 km. With one reference station accuracy degrades at +1 ppm beyond 80 km.

9 Accuracy varies with proximity to base station by +5 ppm.

Specifications subject to change without notice.

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