

# GeoExplorer® 3

*Handheld GPS mapping and GIS data collection/maintenance system*

## Key features and benefits

- Productive data collection of GPS data for GIS
- Cable-free, real-time differential GPS with optional BoB receiver
- Easy data maintenance of existing GIS databases
- Rugged, portable design

The GeoExplorer® 3 handheld GPS system allows you to collect and maintain spatial data for GIS databases. It is the ideal solution for mapping and managing spatial data in many applications, including natural resource mapping, environmental studies, and creating and maintaining of utility and urban asset databases.

The GeoExplorer 3 system lets you map points, lines and areas quickly and easily. You can also record customized attribute data about these features. This field data can then be incorporated seamlessly into your GIS as you build and administer your database.

### Greater All-Around Productivity

The GeoExplorer 3 system increases your productivity both in the field and in the office.

The system's graphical map and navigation displays let you see your current location and plan your activities for best efficiency. An integrated digital compass provides accurate bearings and distances to keep you on track.

Its small, lightweight design makes the GeoExplorer 3 system extremely portable and unobtrusive in difficult terrain. There is no need to carry spare batteries because the internal long-life battery lasts an entire working day and can be recharged overnight.



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Its wide operating temperature range and rugged, water-resistant casing let you use it in all weather conditions. The clear, backlit display allows viewing from a wide variety of angles at all light levels.

The intuitive graphical interface and interactive CD-ROM training guide help your field crew quickly become proficient.

Back in the office, the powerful GPS Pathfinder® Office software makes processing the field data simple and intuitive, freeing your GIS technicians for other work.

### Easy GIS Data Maintenance

When combined with Trimble's Beacon-on-a-Belt, or BoB™ differential correction receiver, the GeoExplorer 3 system becomes a precise differential GPS tool for real-time mapping and

maintenance of GIS data without the need for differential postprocessing. You can also upload features from your GIS to the GeoExplorer 3 system and verify or update the positions and attributes, ensuring that your GIS always contains the most accurate and up-to-date information available.

The BoB receiver sits securely on your belt, providing differential corrections to the GeoExplorer 3 system in real-time. Because it is cable-free, the unit cannot become entangled in brush or branches.

Drawing on Trimble's extensive knowledge of GPS mapping and navigation, the GeoExplorer 3 system is the most productive, intuitive, and compact system available to meet your GIS data collection and data-maintenance needs.

# Trimble

# GeoExplorer 3

## Handheld GPS Mapping System

### FEATURES

- Collection of point, line, and area features with attribute information
- 1 to 5 meter precision after differential correction\*
- Integrated high-performance 12-channel GPS receiver and antenna
- Cable-free, real-time link to Beacon-on-a-Belt (BoB) differential correction receiver
- Rugged and water-resistant design
- Carrier phase processing for sub-meter precision
- Creation and storage of multiple data dictionaries in the office or directly on the unit
- Upload of existing data for data maintenance (relocation, verification, and update)
- Real-time map display
- Graphical satellite skyplot
- Graphical navigation screens
- Internal digital compass for navigation at low velocity
- Password protection and pre-field setup of parameters using the Configuration Manager
- National and custom coordinate system support
- NMEA output
- All-day internal rechargeable battery
- Two-level backlit screen with 160 x 160 pixel graphical display
- Selectable English, French, Spanish, and Portuguese and downloadable German, Russian, Chinese and Japanese language interface

\* The above precision values assume tracking of 4 satellites (5 satellites for carrier phase), a PDOP of <6, SNR >4 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. Real-time precision assumes a standard RTCM SC-104 format broadcast from a Trimble reference station.

### STANDARD ACCESSORIES

- Office support module for data download and battery recharging
- Serial clip with standard DE-9 connector (allows data in/out and recharging away from support module)
- Carrying pouch, hand strap, and neck lanyard
- GPS Pathfinder Office software—mission planning, data import and export, differential correction, plotting, data dictionary creation
- Operation Guide CD including interactive tutorial
- Quick Start card

### OPTIONAL ACCESSORIES

Beacon-on-a-Belt (BoB)	Rugged ergonomic differential correction receiver with cable-free link to the GeoExplorer3 and all day internal battery
External power kit	Includes rechargeable camcorder battery, vehicle cigarette lighter adapter, and soft shoulder pack
External antenna kit	Magnetic or range pole mount
RTCM/NMEA splitter cable	For simultaneous RTCM input and NMEA output with the datalogger, this cable is not required if RTCM input from BoB receiver in cable-free mode
Hard carrying case	Rugged hard case with room for both the GeoExplorer 3 system and BoB differential correction receiver

### HANDHELD SPECIFICATIONS

Size	20.6 cm L x 9.4 cm W x 5.1 cm H 8.1" L x 3.7" W x 2.0" H
Weight	0.64 kg (1.4 lbs.) with battery
Power	1.0 W (normal) 1.4 W (low backlight) 2.0 W (bright backlight)
Operating temperature	-10°C to +50°C (14°F to 122°F)
Storage temperature	-20°C to +70°C (-4°F to 158°F)
Humidity	Up to 99% non-condensing
Casing	Wind-driven rain and dust resistant per IP 55 Standard, slip-resistant grip, SMB connector for external antenna. Shock and vibration resistant.
Communications	Dual EIA-RS-232 serial connection via support module or serial clip
Display	160 x 160 pixel graphical LCD with 2-level backlight, anti-fog and brightness enhancing coatings, angled for easy viewing
Beeper	Single frequency piezoelectric
Digital compass	Magneto-resistive dual-axis with 8-point resolution
Battery	Internal Li-Ion, rechargeable in unit, 11 wathours
Keypad	Metal dome with high tactile feedback, protected on/off key, protective coating
Internal radio	916 MHz license-free (in US) with built-in antenna—OOK modulation
Storage	
Data	1 megabyte (32,000 positions excluding data dictionaries, waypoints, and other data)
Waypoints	1,000 named locations

### ORDERING INFORMATION

GeoExplorer 3 GPS System	39100-00-ENG
GeoExplorer 3 System with BoB receiver	38400-00-ENG <sup>1</sup>
GeoExplorer 3c GPS System <sup>2</sup>	39100-50-ENG
GeoExplorer 3c System w/ BoB receiver <sup>2</sup>	38400-50-ENG <sup>1</sup>
External power kit	39001-00
External antenna kit	39002-00
RTCM-In / NMEA-Out splitter cable	39142
Hard carrying case	39292-00
Beacon-on-a-Belt (BoB) receiver	38600-00-ENG <sup>1</sup>

<sup>1</sup> These part numbers are for use in the US only. Outside the US contact your local Trimble dealer for local ordering information.

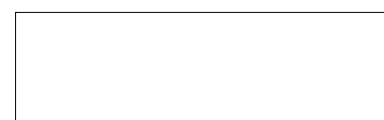
<sup>2</sup> GeoExplorer 3c systems do not include data maintenance support, cable-free link to BoB receiver, real-time map display, or national/custom coordinate system support.



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