

TerraSync

Field software for quality GIS data

TerraSync™ is powerful field software, designed for fast and efficient data collection and maintenance. Teamed up with a supported Trimble® GPS receiver and a field computer of your choice, it's all you need to collect quality feature and position data for your geographic information system (GIS).

Effortless data collection

Whether you need to collect many identical assets, or a range of assets with many different attributes, TerraSync lets you collect high-quality data quickly and easily. You can create a data dictionary based on the enterprise GIS, so that features, attributes, and acceptable attribute values match the GIS data structure. Now you can be sure that the data you collect will always meet the decision makers' requirements.

Using a data dictionary improves efficiency and ease of use in the field, with time-savers like pre-defined pick lists and automatic generation of date and time values. And to make your field session effortless, TerraSync puts smart features—like map-centric operation, graphical status display, and the ability to record a position offset if you can't get right to the feature—at your fingertips.

Smart data maintenance

When you need to go back into the field to verify and update your GIS data, TerraSync makes the job as quick as possible. You can sort and filter imported features from your GIS, based on the order you want to visit them. Features can be viewed as a simple list, or on the color-coded map with an aerial photo or satellite image in the background for reference. To revisit an asset, select the corresponding feature from the list or map, and then let the intuitive, graphical GPS



navigation tools guide you exactly where you need to go. Once you've visited an asset, TerraSync automatically marks it as updated, so it's easy to see what you've done and what's left to do.

Quality control made easy

With TerraSync it's a breeze to configure GPS settings. Simply use the GPS slider, or custom settings, to specify the GPS data quality that your enterprise GIS demands. Then, to make sure your time in the field will be productive, use the Plan section to view a graphical prediction of the satellite constellation and identify the best times for data collection.

TerraSync integrates seamlessly with a range of Trimble GPS receivers to give you the high quality data you need. For extra precision, you can differentially correct your data back in the office, use real-time differential GPS, or connect to a Real Time Kinematic (RTK) GPS receiver. Whichever combination of GPS receiver and correction method suits your needs, you can be sure of hassle-free connection, easy configuration, clear feedback while you work, and first-class data for your GIS.



Key Features

- Smart time-saving features for effortless GIS data collection
- Seamless GPS control for quality position data
- Graphical navigation and real-time map display
- Runs on Trimble's ruggedized Windows Mobile handhelds
- RTK data collection with Trimble R7, Trimble R8, 5700, and 5800 GPS receivers

Simple, effective, and productive in the field—TerraSync is the easy-to-use tool you need to collect and maintain quality GIS data.



Features and options

Key features

- Collect position, feature, and attribute data
- Industry leading GPS receiver configuration and control
- Real-time map display supports raster and vector background maps
- Graphical screens for navigation back to selected features
- Data dictionary editor for customized data collection requirements
- Data dictionary capabilities allow in-field modifications to data dictionaries
- Mission planning to find the best time to collect data
- Supports multimedia attributes such as voice and image files
- Send and receive files by e-mail directly in the field
- Supports ESRI® Shapefiles

GPS accuracy

- Real-time differential correction (available sources depend on GPS receiver used)
- Improved position accuracy by differential postprocessing of GPS data
- Support for collection of RTK data with Trimble 5700, 5800, R7, and R8 receivers

Software editions

- TerraSync Standard edition for data collection
 - TerraSync Professional edition for data collection and maintenance
- For a product comparison of the Standard and Professional editions visit:
www.trimble.com/terrasync.html

Supported GPS receivers

- GeoXT™ handheld
- GeoXM™ handheld
- GPS Pathfinder® Pocket
- GPS Pathfinder Power
- GPS Pathfinder Pro XR
- GPS Pathfinder Pro XRS
- Trimble 5700
- Trimble 5800
- Trimble R7
- Trimble R8

Supported field devices

- GeoExplorer® series handhelds
- GIS TSCe™ field device
- Trimble Recon™ handheld
- Any field device running a supported Microsoft® Windows® operating system

Available languages

- | | | |
|------------------------|------------|--------------|
| • Chinese (Simplified) | • German | • Portuguese |
| • English | • Japanese | • Russian |
| • French | • Korean | • Spanish |

Recommended hardware

Windows CE or Windows Mobile field device

- Operating system Windows CE version 3.00 or later
- Processor type
- Pocket PC ARM or XScale
 - H/PC 2000 ARM, XScale, or MIPS
- Processor speed 206 MHz
- Memory 32 MB RAM
- at least 8 MB free memory
- Input/output Serial cable and RS-232 serial port (or appropriate adaptor)
- Display Color touch screen (240 x 320 pixels or larger)
- reflective screen (or other screen suitable for outdoor viewing)

Windows field device

- Operating system Microsoft Windows 95, 98, Me, NT 4.0, 2000, or XP
- Processor speed Pentium 400 MHz or faster
- Memory 32 MB RAM
- at least 8 MB free memory
- Input/output Serial cable and RS-232 serial port (or appropriate adaptor)

Supported formats

Vector background formats

- Trimble SSF format (.ssf, .cor, .phs, .imp)

Raster (image) background formats

- JPEG (.jpeg)
- MrSID (.sid)
- TIFF (.tif)
- Windows bitmap (.bmp)

GPS postprocessing options

- GPS Pathfinder Office software
- Trimble® GPS Analyst™ extension for ESRI ArcGIS software

Demonstration and evaluation

- Evaluation software available at: www.trimble.com/terrasync_eval.html
- Interactive online demonstration available at:
www.trimble.com/terrasync_demo.html

Specifications subject to change without notice.

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