# DATASHEET

# TerraSync
# software

## KEY FEATURES

Smart time-saving features for effortless GIS data collection and maintenance

Seamless GPS control for quality position data

Graphical navigation and real-time map display

Runs on Trimble's ruggedized Windows Mobile handhelds

H-Star data collection for subfoot accuracy with the GPS Pathfinder ProXH receiver

## FIELD SOFTWARE FOR QUALITY GIS DATA

The TerraSync™ software 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, the TerraSync software 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, the TerraSync software 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, the TerraSync software 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 to precisely where you need to go. Once you've visited an asset, the TerraSync software 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 the TerraSync software 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.

The TerraSync software integrates seamlessly with a range of Trimble GPS receivers to give you the high quality data you need. You can differentially correct your data back in the office, use real-time differential GPS, or both—the choice is yours. For extra precision, collect H-Star™ data with a GPS Pathfinder® ProXH™ receiver and use H-Star postprocessing. Completely integrated with existing data collection workflows, H-Star technology makes high accuracy data collection faster and easier than ever before.

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.

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

**⊗ Trimble.**

## 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 with differential postprocessing of GPS data
- Collect H-Star data for subfoot (30 cm) accuracy with the GPS Pathfinder ProXH receiver
- Support for collection of RTK data with Trimble 5800 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/mgis_prodcomp.shtml

### Supported GPS receivers

- GeoXT™ handheld
- GeoXM™ handheld
- GPS Pathfinder Pocket receiver
- GPS Pathfinder ProXT™ receiver
- GPS Pathfinder ProXH receiver
- GPS Pathfinder Pro XRS receiver
- Trimble Recon™ GPS Card edition
- Trimble Recon GPS Pocket edition
- Trimble 5800 receiver
- Trimble R8 receiver

### Supported field computers

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

### Available languages

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

## RECOMMENDED HARDWARE

### Windows CE or Windows Mobile field computer

Operating system . . . . . Windows Mobile™ 2003 software for Pocket PCs or Microsoft Windows CE version 4.x (CE .NET)

Processor type . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ARM or XScale

Processor speed . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 200 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) or Bluetooth® technology for connection to GPS Pathfinder Pro series receiver

Display. . . . . . . . . . . . . . . . Color touch screen (240 × 320 pixels or larger) Reflective screen (or other screen suitable for outdoor viewing)

### Windows field computer

Operating system . . . . . . . . . Microsoft Windows NT 4.0, Windows 2000, or Windows XP (Home, Professional, or Tablet PC Edition)

Processor type . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Intel Pentium CPU

Processor speed . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 500 MHz or faster

Memory. . . . . . . . . . . . . . . . . . . 64 MB RAM at least 8 MB free memory

Input/output. . . . . . . . . . . . . . . . . . . . . Serial cable and RS-232 serial port (or appropriate adaptor) or Bluetooth technology for connection to GPS Pathfinder Pro series receiver

## SUPPORTED BACKGROUND FILE FORMATS

### Vector formats

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

### Raster (image) formats

- JPEG (.jpg)
- 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_ft.shtml
- Interactive online demonstration available at www.trimble.com/terrasync_demo.shtml

*Specifications subject to change without notice.*

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