DATASHEET

TRIMBLE TERRASYNC SOFTWARE

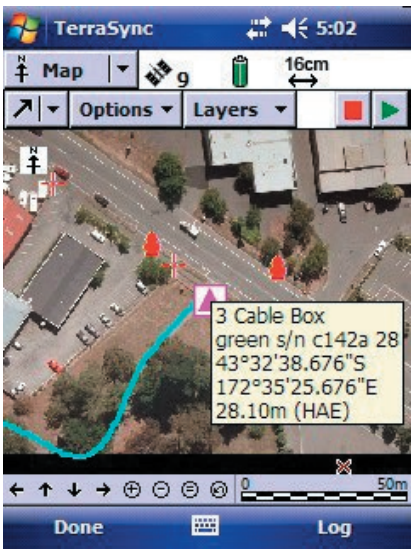
KEY FEATURES

Designed for efficient field GIS data collection and maintenance

Trimble QuickPoint data collection mode for one-click data capture

Customizable user interface simplifies field operation

Supports GNSS handheld computer, laser rangefinder, camera, or centimeter-grade equipment data collection methods



SOFTWARE FOR HIGHLY PRODUCTIVE FIELD GIS DATA COLLECTION AND MAINTENANCE

Trimble® TerraSync™ software is designed for fast and efficient field GIS data collection and maintenance. Integrating all the ways you collect data—with a GNSS handheld computer, laser rangefinder, or centimeter-grade equipment—it's a powerful system for the collection of high quality feature and position data for GIS update and maintenance.

Effortless and intelligent field data collection

Regardless of the field application and the complexity of the GIS data to be collected, Trimble TerraSync software provides simple and efficient workflows to capture high quality data quickly and easily.

Trimble TerraSync software makes the field data collection workflow seamless by including intelligent features such as map-centric operation, graphical status display, and the ability to record a position offset, at the field worker's fingertips.

Working in Trimble QuickPoint™ data collection mode GIS point features can be collected with a single press of a button, a tap of the screen, or point-and-shoot operation of a Trimble LaserAce™ 1000 rangefinder. Simple to learn and use, QuickPoint mode saves field workers time collecting position and attribute information for features of the same type.

Trimble TerraSync software also makes it easy to incorporate photo capture into the data collection workflow using either a Trimble handheld with integrated camera or the Trimble TrimPix™ Pro system with any supported camera. Field workers can take and preview photos, automatically attaching them to the current feature, and stamping each photo with the time, date, and location at which it was taken.

Trimble TerraSync software supports a wide range of centimeter-grade receivers—by leveraging RTK receivers, GIS field workers can achieve centimeter-accuracy using existing GIS workflows.

Trimble TerraSync software also includes the ability to use data dictionaries previously created in Trimble GPS Pathfinder® Office software, based on the enterprise GIS. A data dictionary allows field workers to create features and assign attribute values that not only comply with the GIS data structure, but also preserve data integrity. Data capture forms can also dynamically adapt to previously entered attribute values for maximum data collection efficiency with a minimum of training.

Powerful simplicity

To improve the field worker experience, the TerraSync user interface can be customized and simplified, removing functionality to ensure maximum field productivity and eliminate potential configuration errors, while minimizing the need for specialist training. TerraSync Studio utility within GPS Pathfinder Office software provides a rich environment to develop and test customized TerraSync user interfaces. The result is that field workers see the overview of a data form more clearly, avoiding confusion and guiding them through only required form sections, speeding up form completion without sacrificing accuracy.

Smart data maintenance

Trimble TerraSync software provides additional benefits for field workers involved in data maintenance activities. Assets imported from a GIS can be sorted and filtered based on the order they are to be visited for efficient route planning. Assets can be viewed as a simple list, or on a color-coded map with an aerial photo or satellite image in the background for reference. Fast raster map background redraw makes it possible to work with much larger images in TerraSync, resulting in increased productivity and creating a more dynamic field worker experience.

Quality control made easy

With Trimble TerraSync software, field workers can collect data and achieve the required level of accuracy, either in real time or after postprocessing. Accuracy-based logging settings specify the GNSS data quality that the enterprise GIS demands and TerraSync software does the rest. To ensure that time in the field will be productive, field workers can use the Plan section to view a graphical prediction of the GPS satellite constellation and identify the best times for data collection.

TerraSync software integrates seamlessly with a range of Trimble GNSS receivers to deliver the required accuracy level to meet company or regulatory requirements. The software supports postprocessing the data back in the office or using real-time differential GNSS corrections to improve data quality and accuracy. TerraSync software can also be used with supported Trimble GNSS receivers to collect Trimble H-Star™ data for extra precision. Alternatively, optimal GNSS code processing accuracy can be achieved with a Trimble DeltaPhase™ technology-capable receiver.

Simple, efficient, and productive in the field—Trimble TerraSync software is the clear choice for collecting and maintaining high quality GIS data.

Trimble

TRIMBLE TERRASYNC SOFTWARE

FEATURES AND OPTIONS

Key features

- Efficient field data collection of features, positions, and attribute data
- Easy, fast one-click data capture working in QuickPoint data collection mode
- Configurable user interface for simple, efficient workflows and data entry
- Conditional attributes for dynamically adapting data capture forms
- Industry-leading GNSS receiver configuration and control
- Map display support for multiple raster and vector background maps
- Quick navigation to features or waypoints
- Mission planning to find the best time to collect GNSS data
- Multimedia support for attributes such as voice and image files
- Seamless integration with the LaserAce 1000 rangefinder
- Optimized for Trimble handhelds with integrated digital cameras
- Read/write support for Esri Shapefiles
- Customizable splash screen

GNSS accuracy

- Real-time differential correction (available sources depend on GNSS receiver and base station used)
- Record GPS and GLONASS data for subsequent postprocessing
- Achieve decimeter (10 cm / 4 inch) accuracy using real-time or postprocessed H-Star technology (dependent on H-Star-capable receiver and antenna combination used)
- Supports logging of DeltaPhase data for optimal code accuracy after postprocessing
- Support for collection of RTK data with Trimble 5800 and Trimble R8/R6/R4 GNSS receivers
- Achieve real-time or postprocessed centimeter-level accuracy using the Trimble GeoXH™ Centimeter edition handheld and a dual frequency correction source[1]

Software editions

- Trimble TerraSync Standard edition for data collection
- Trimble TerraSync Professional edition for data collection and maintenance
- Trimble TerraSync Centimeter edition for data collection with the Trimble GeoXH Centimeter edition handheld or centimeter-grade receivers[1]

  For a product comparison of the Standard, Professional, and Centimeter editions visit:
  www.trimble.com/mappingGIS/product-comparison

Supported GNSS receivers

- Trimble Pro 6H receiver
- Trimble Pro 6T receiver
- Trimble GPS Pathfinder ProXRT receiver
- Trimble R8 receiver (Models 2 and 3)[2]
- Trimble R6 receiver (Models 1 and 2)[2,3]
- Trimble R4 receiver[2,3]
- Trimble 5800 receiver (Model 2)[2]

Supported handheld computers with integrated GNSS

- Trimble GeoExplorer® series handheld
- Trimble Juno® series handheld
- Trimble Nomad® G series handheld
- Trimble Yuma® 2 rugged tablet computer

Available languages

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

RECOMMENDED PLATFORM

Windows Mobile field computer

Operating system . . . . . Windows Mobile® version 5.0 or 6.x, Windows Embedded Handheld 6.x
Processor type . . . . . ARM, XScale, or OMAP
Processor speed . . . . . 200 MHz or faster
Memory . . . . . 62 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) Transflective screen (or other screen suitable for outdoor viewing)

Windows field computer

Operating system:
Windows® 7 . . . . . Home Premium, Professional, Ultimate Editions SP 1 (32- or 64-bit)
Windows Vista® . . . . . Home Premium, Business, Ultimate Editions SP 2 (32- or 64-bit)
Windows XP . . . . . Professional or Tablet PC Edition SP 3 (32- or 64-bit)
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)
- Esri Shapefiles (.shp)

Raster (image) formats

- JPEG (.jpg)
- JPEG 2000 (.jp2, .j2c)
- Enhanced Compression Wavelet (.ecw)
- MrSID (.sid)
- TIFF (.tif)
- Windows bitmap (.bmp)

GNSS POSTPROCESSING OPTIONS

- Trimble GPS Pathfinder Office software
- Trimble GPS Analyst™ extension for Esri ArcGIS for Desktop software[4]

1 Trimble TerraSync Centimeter edition software only. Supports real-time or postprocessed data collection with the Trimble GeoXH Centimeter edition. Supports real-time data collection only with centimeter-grade receivers.
2 Trimble centimeter-grade receivers must be running firmware version 4 or later. For real-time data collection only.
3 Requires the Advanced Data Controller option.
4 Esri ArcGIS for Desktop software version 10 or earlier only.

Specifications subject to change without notice.

Bluetooth®

YOUR LOCAL TRIMBLE OFFICE OR REPRESENTATIVE

NORTH & SOUTH AMERICA
Trimble Navigation Limited
10368 Westmoor Drive
Westminster, CO 80021
USA
+1-800-538-7800 Option 2 or
+1-720-279-7994 Phone
+1-720-587-4878 Fax

EUROPE & AFRICA
Trimble Germany GmbH
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
+65-6348-2232 Fax

Trimble®

www.trimble.com
store.trimble.com