Trimble GPS Pathfinder Office Software

Key Features

Differential corrections to improve the quality of GNSS data collected in the field

Quality control of GNSS data before exporting to GIS

Data import and export in a variety of GIS and CAD formats

Sophisticated data dictionary editor to ensure consistency between the field and the office

H-Star data processing for high accuracy with Geo 7X handheld or the Trimble Pro 6H or GPS Pathfinder ProXRT receiver

Centimeter-level accuracy using the Geo 7X or GeoXH Centimeter edition handheld

Supports GLONASS postprocessing for data collected with Trimble GLONASS-enabled GNSS receivers

POWERFUL AND EASY TO USE GNSS DATA PROCESSING SOFTWARE

Trimble® GPS Pathfinder® Office software is a powerful and easy-to-use software package of GNSS postprocessing tools. Incorporating Trimble® DeltaPhase™ differential correction technology the software is designed to develop GIS information that is consistent, reliable, and accurate from GNSS data collected in the field.

Improve the accuracy of GNSS data

Postprocessing with Trimble GPS Pathfinder Office software significantly improves the autonomous accuracy of data collected in the field all the way down to centimeter (1 cm / 0.4 in) level, depending on the environment and the GNSS receiver. Trimble GPS Pathfinder Office software supports the complete Trimble Mapping and GIS GNSS portfolio, as well as associated positioning technologies, such as Trimble H-Star™.

Trimble GPS Pathfinder Office software also includes the unique Integrity Index grading system, which ensures that GNSS field data is differentially corrected using the best quality base station data available.

Increase field work efficiency and productivity

Data can be imported to GPS Pathfinder Office software from a number of GIS and database formats, allowing previously collected GIS data to be taken back to the field for verification and update. The software's Data Dictionary Editor creates custom lists of features and attributes for field data collection and supports the development of conditional attribute data capture forms in Trimble TerraSync™ software that dynamically adapt to previously entered attribute values for maximum data collection efficiency.

By creating a data dictionary or importing one from a GIS based on its exact data schema, GIS administrators can be confident that data collected in the field will integrate seamlessly with the GIS repository and that data returned will be accurate and consistent. In the field, the data capture form prompts field workers to enter specific information, ensuring data integrity and compatibility with the GIS.

The Trimble TerraSync Studio utility within GPS Pathfinder Office software is used to develop and test customized TerraSync user interfaces. To improve the field worker experience, the Trimble TerraSync user interface can be simplified with this utility, removing functionality to ensure maximum field productivity and eliminate potential configuration errors.

Waypoint files can also be created in the software to assist with navigation and efficient asset relocation.

Ensure consistently high quality data

Trimble GPS Pathfinder Office software includes quality control features critical for enterprise GIS data development. For example, collected features can be compared against any number of background datasets such as vector GIS data, aerial photographs or satellite imagery in order to verify accuracy and detect conflicts. Background data can be imported to GPS Pathfinder Office software from GIS systems, directly from imagery files, or referenced directly from a web map server.

In addition, before transferring collected features to a GIS, CAD, or database system, they can be analyzed to confirm they are complete and free of errors. Positions and attributes can be changed and unnecessary or unwanted GNSS positions can be deleted with GPS Pathfinder Office software to ensure that only the highest quality data is exported to the GIS.

Trimble GPS Pathfinder Office software makes it easy to manage, correct, and update GIS data from GNSS data collected in the field.

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FEATURES AND OPTIONS

GNSS accuracy
- Improve GNSS position accuracy through differential postprocessing, including GLONASS postprocessing
- Postprocess real-time differential GNSS data to improve accuracy and consistency
- Review and edit GNSS data before transferring it to a GIS

GIS compatibility
- Import data from popular GIS, CAD, and database formats
- Export data into a variety of GIS, CAD, and database formats
- Create data dictionaries to ensure data collected is consistent with GIS schemas
- Additional import and export formats supported via Trimble SSF and DDF data format extensions for FME

Field-Office workflow optimization
- Plan GNSS field sessions to ensure productive use of field time
- Manage data dictionaries and background data for entire fleets of devices
- Automate data transfer from field devices, differential correction, and data export to GIS
- Configure and simplify the TerraSync software interface to increase field worker productivity

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

Field software options
- Trimble TerraSync software
- Trimble Positions™ ArcPad extension
- Trimble GPScorrect™ extension for Esri ArcPad software

RECOMMENDED PLATFORM
Operating system:
Windows® 7 . . . . Home Premium, Professional, Ultimate Editions SP 2 (32- or 64-bit)
Windows Vista® . . . . Home Premium, Business, Ultimate Editions SP 1 (32- or 64-bit)
Windows XP . . . . Professional or Tablet PC Edition (32- or 64-bit)
Free disk space . . . . 270 MB
Input/output. . . . . RS-232 serial port and/or USB port

GNSS RECEIVERS AND ACCURACY SPECIFICATIONS
Typical autonomous accuracy for all Trimble Mapping & GIS GNSS receivers is approximately 10 meters. Differentially corrected accuracy specifications for supported receivers range from 1 cm to 2 m–5 m.

Refer to the Mapping & GIS product comparison (www.trimble.com/mappingGIS/product-comparison) or to the relevant datasheet for full details.

SUPPORTED FORMATS

Import formats
- AutoCAD 2000 ASCII DXF
- dBASE
- Esri Shapefiles
- Esri File Geodatabase
- MapInfo MIF
- Microsoft Access MDB
- KML
- Additional formats supported via Trimble SSF and DDF data format extensions for FME

Export formats
- ARC/INFO (for NT and UNIX) Generate
- AutoCAD 2000 ASCII DXF (with or without blocks)
- dBASE
- Esri Shapefiles
- Esri File Geodatabase
- GRASS
- IDRISI Vector
- Google Earth KML and KMZ
- MapInfo MIF
- MGAL
- Microsoft Access MDB
- Microstation version 7 DGN
- PC-ARC/INFO Generate
- PC-MOSS
- Additional formats supported via Trimble SSF and DDF data format extensions for FME

Vector background formats
- AutoCAD 2000 ASCII and binary DXF (.dxf)
- Esri Shapefiles (.shp)
- Trimble SSF format (.ssf, .cor, .imp, .phs, .wpt)

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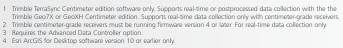- TIFF (.tif)
- Windows bitmap (.bmp)

Web map servers
- ArcIMS
- OpenGIS

SUPPORTED BASE FILE AND COMPRESSION FORMATS

Base file formats
- Hatanaka (Compressed RINEX)
- RINEX
- Trimble DAT format
- Trimble SSF format

Compression types
- GZip (.gz)
- Self-extracting executable (.exe)
- Zip (.zip)

Specifications subject to change without notice.

TRIMBLE AUTHORIZED DISTRIBUTION PARTNER

היפר-טק
מערכות

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