GPS Pathfinder Office software

KEY FEATURES

Differentially correct to improve the quality of your GPS data

H-Star data processing for high accuracy with the GPS Pathfinder ProXRT and ProXH receivers, or the GeoXH handheld

Supports GLONASS postprocessing for data collected with a GLONASS option-enabled GPS Pathfinder ProXRT receiver

Import and export data in a variety of GIS formats

Create sophisticated data dictionaries to match your GIS or database

Carry out quality control on your data before you transfer it to the GIS

POWERFUL AND EASY TO USE GPS DATA PROCESSING SOFTWARE

The GPS Pathfinder® Office software is a powerful and easy-to-use software package of powerful GNSS postprocessing tools, incorporating the new Trimble® DeltaPhase™ differential correction technology, ensuring your data is consistent, reliable, and accurate.

Improve the accuracy of your GPS data

Postprocessing gives significant improvements on your autonomous accuracy all the way down to decimeter (10 cm / 4 inch) level, depending on the environment and your GPS receiver. Using Trimble's H-Star™ technology you can achieve decimeter accuracy with the GPS Pathfinder ProXH™ and ProXRT receivers and the GeoXH™ 2008 series handheld. Alternatively, with a GeoXT™ or Juno™ series handheld, or a ProXT™ receiver, you can achieve optimal GPS code processing accuracy with the new Trimble DeltaPhase technology.

Make sure that your data is differentially corrected using the best quality base station data available with GPS Pathfinder Office software's unique Integrity Index grading system. Providing a list of monitored base data providers from around the world, the Integrity Index helps you select quality providers to use when differentially correcting your data.

Increase the efficiency of your field work

Data can be imported 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 GPS Pathfinder Office software's Data Dictionary Editor creates custom lists of features and attributes for data collection. You can be confident that data collected in the field meets your specific GIS needs by creating your own data dictionary or

importing one from your GIS based on its exact data schema. In the field, the data dictionary prompts the field crew to enter specific information—ensuring data integrity and compatibility with your GIS or database. You can also create waypoint files to enhance productivity in the field.

Ensure you have quality data

You can view your features for comparison against any number of background files such as aerial photographs or satellite imagery of the area you are working in. You can even display and use background data directly from a web map server.

Before transferring your data to a GIS, CAD, or database system, you can analyze it to confirm it is complete and free of errors. GIS feature and attribute data can be changed, and unnecessary or unwanted GPS positions can be deleted. This ensures that only the highest quality data is exported to your GIS.

GPS Pathfinder Office software—making it easy for you to manage, correct, and update your GIS data.

Trimble

FEATURES AND OPTIONS

GPS accuracy
- Improve GPS position accuracy through differential postprocessing, including GLONASS postprocessing
- Postprocess real-time differential GPS data to improve accuracy and consistency
- Review and edit GPS data before you transfer it to a GIS
- Compatible with Trimble GPS Pathfinder receivers, any GeoExplorer® series, Trimble Nomad® G series, or Juno series handheld, or with the Trimble Yuma™ rugged tablet computer

GIS compatibility
- Import data from popular GIS, CAD, and database formats
- Export data into a wide variety of GIS, CAD, and database formats
- Create data dictionaries to ensure data collected is consistent with GIS requirements

Workflow
- Plan GPS field sessions to ensure productive use of field time
- Set up multiple field computers with the same files and settings
- Automate data transfer, differential correction, and data export

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

Field software options
- TerraSync™ software
- Trimble GPScorrect™ extension for ESRI ArcPad software
- Applications developed using GPS Pathfinder Tools Software Development Kit (SDK)

RECOMMENDED PLATFORM

Operating system. . . . . .Windows® XP
(Home, Professional[1], or Tablet PC Edition) (32- or 64-bit versions)
Windows Vista® or Windows 7
(Home thru Enterprise Editions) (32- or 64-bit versions)
Free disk space. . . . . 270 MB
Input/output. . . . . RS-232 serial port and/or USB port

GPS RECEIVERS AND ACCURACY (HRMS)[2] SPECIFICATIONS

Typical autonomous accuracy for all GPS receivers is around 10 meters. The following table shows differentially corrected accuracy specifications for supported receivers:

Receiver/Handheld	Postprocessed
GPS Pathfinder ProXRT receiver	decimeter[3] / 1 cm[4]
GPS Pathfinder ProXH receiver	50 cm / decimeter[3] / 1 cm[4]
GPS Pathfinder ProXT receiver	50 cm / 1 cm[4]
GeoXH handheld	50 cm / decimeter[3] / 1 cm[4]
GeoXT handheld	50 cm / 1 cm[4]
GeoXM™ handheld	1–3 m
Juno series handheld	1–3 m
Trimble Nomad G series handheld	2–5 m
GPS Pathfinder XC receiver	2–5 m
Trimble Recon® GPS XC edition	2–5 m
Trimble Yuma rugged tablet computer	2–5 m

Refer to relevant datasheet for full details.

SUPPORTED FORMATS

Import formats
- AutoCAD 2000 ASCII DXF
- dBASE
- ESRI Shapefiles
- MapInfo MIF
- Microsoft Access MDB

Export formats
- ARC/INFO (for NT and UNIX) Generate
- AutoCAD 2000 ASCII DXF (with or without blocks)
- dBASE
- ESRI Shapefiles
- GRASS
- IDRISI Vector
- Google Earth KML and KMZ
- MapInfo MIF
- MGAL
- Microsoft Access MDB
- Microstation version 7 DGN
- PC-ARC/INFO Generate
- PC-MOSS

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)

1 Windows XP Professional x64 Edition is not supported.
2 Horizontal Root Mean Squared accuracy. Specifications apply except in conditions where most GPS signals are affected by trees, or buildings, or other objects. The Trimble Nomad G series and GPS Pathfinder XB or XC receivers must be held horizontally; the Juno SB and SC handhelds must be held vertically. Postprocessed code accuracy varies with proximity to reference station by +1 ppm.
3 The following factors increase the availability of 10 cm accuracy after H-Star postprocessing: longer elapsed time tracking uninterrupted L1/L2 carrier phase data, use of the optional external Tornado™ antenna, tracking of more satellites with L2 measurements, shorter distance to the base station(s), and use of more (than one) base stations for postprocessing. H-Star specified accuracy is typically achieved within 2 minutes and degrades by +1 ppm as the distance from the base station increases. The ProXH receiver will only achieve decimeter postprocessed accuracy with the optional Tornado external antenna.
4 Centimeter accuracy is achieved only within 10 km of base station, with a minimum of 45 minutes continuous carrier lock. Accuracy degrades by 2 ppm as baseline lengthens. Carrier accuracy is 20 cm after 10 minutes; 10 cm after 20 minutes.

Specifications subject to change without notice.

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