

# GPS Pathfinder Office

## Powerful GPS data processing software

The GPS Pathfinder® Office software adds value to your GIS data collection and data maintenance projects. This powerful and easy-to-use software ensures your data is consistent, reliable, and accurate—enabling you to make informed decisions.

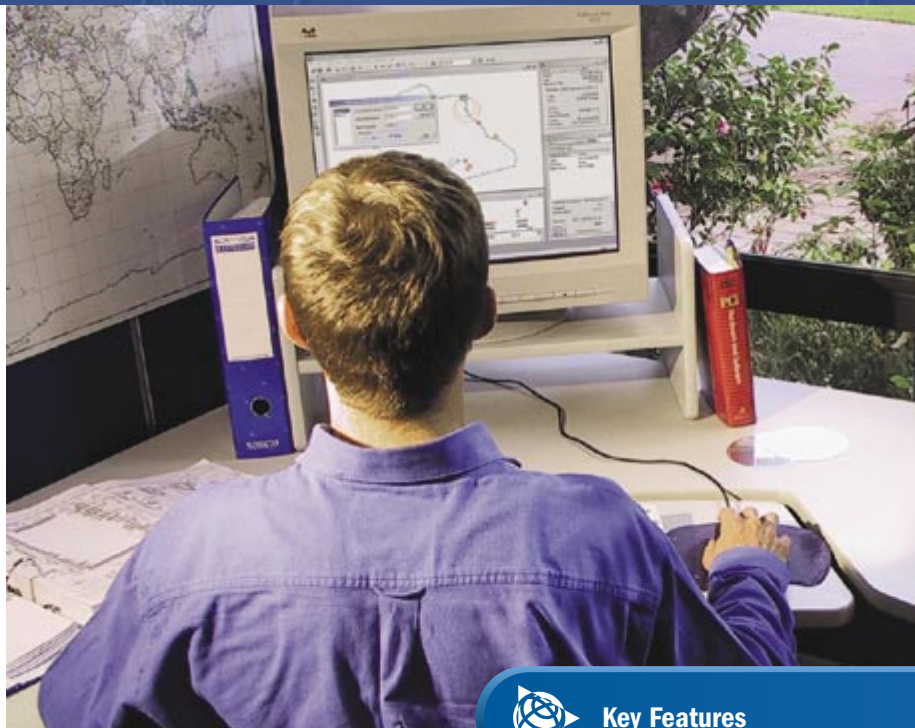
### Improve the accuracy of your GPS data

A process called differential correction can improve the accuracy of your GPS positions from around ten meters\* to one centimeter, depending on the environment and your GPS receiver. Now you can ensure that your data is differentially corrected using the best quality base station data available. The GPS Pathfinder Office's unique "integrity index" grading system provides a list of monitored base data providers from around the world—helping you select quality providers to use when differentially correcting your data.

### Increase the efficiency of your field work

The GPS Pathfinder Office software helps you plan and schedule GPS field sessions to ensure field time is productive and data collected is of the highest quality. Files 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 ensure all field data collected 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.

### 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—making it easy for you to manage, correct, and update your GIS data.



### Key Features

- Differentially correct to improve the quality of your GPS data
- Import and export data in a variety of GIS formats
- Create sophisticated data dictionaries to match your GIS or database
- Select the best base data available for differential correction

\* Typical autonomous GPS accuracy.



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### Features and options

#### GPS accuracy

- Improve GPS position accuracy through differential 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 any Trimble GPS Pathfinder receiver or GeoExplorer® CE series handheld

#### 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

#### Recommended hardware

Operating system . . . . . Microsoft® Windows® 95, 98, Me, NT 4.0 or later,  
2000, XP, or XP Tablet PC Edition

Processor type . . . . . Pentium

Processor speed . . . . . 400 MHz

Memory . . . . . 64 MB RAM

Free disk space . . . . . 160 MB

Input/output . . . . . RS-232 serial port and USB port

#### Available languages

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

#### Field software options

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

#### GPS receivers and accuracy (RMS)<sup>1</sup> specifications

Receiver	Real-time differential	Postprocessed differential	Postprocessed carrier <sup>2</sup>
GPS Pathfinder Power	submeter	submeter	1 cm
GPS Pathfinder Pro XR	submeter	50 cm	1 cm
GPS Pathfinder Pro XRS	submeter	50 cm	1 cm
GPS Pathfinder Pocket	2-5 m	2-5 m	not available
GeoXT™ handheld	submeter	submeter	30 cm
GeoXM™ handheld	2-5 m	2-5 m	not available

Specifications subject to change without notice.

### Supported formats

#### Supported import and export formats

##### Import formats

- AutoCAD DXF
- dBASE
- ESRI Shapefiles
- MapInfo MIF
- Microsoft Access MDB

##### Export formats

- ARC/INFO (for NT and UNIX) Generate
- ESRI Shapefiles
- AutoCAD DXF (with or without blocks)
- dBASE
- GRASS
- IDRISI Vector
- MapInfo MIF
- MGAL
- Microsoft Access MDB
- Microstation DGN
- PC-ARC/INFO Generate
- PC-MOSS

#### Vector background formats

- AutoCAD ASCII DXF (.dxf)
- AutoCAD binary DXF (.dxf)
- ESRI Shapefiles (.shp)
- Trimble SSF format (.ssf, .cor, .phs, .imp)

#### Raster (image) background formats

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

#### Web map servers

- ArcIMS
- OpenGIS

### Supported base file and compression formats

#### Base file formats

- Trimble DAT format
- Hatanaka (Compressed RINEX)
- RINEX
- Trimble SSF format

#### Compression types

- EXE
- GZ
- ZIP

<sup>1</sup> Horizontal accuracy. Requires data to be collected with minimum of 4 satellites, maximum PDOP of 6, minimum SNR of 4, minimum elevation of 15 degrees, and reasonable multipath conditions. Ionospheric conditions, multipath signals or obstruction of the sky by buildings or heavy tree canopy may degrade precision by interfering with signal reception. Accuracy varies with proximity to base station by + 1 ppm for postprocessing and real-time.

<sup>2</sup> GPS Pathfinder receivers require 45 minutes tracking satellites to achieve this accuracy. The GeoXT handheld requires 10 minutes tracking satellites to achieve this accuracy. Please refer to the individual receiver datasheet for further information.

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