

Features of GPS Analyst, Pathfinder Office, and TerraSync

	GPS Analyst 2.1	PathfinderOffice 4.1	TerraSync 4.01
OS Compatibility	2000 Pro, XP Pro, XP Tablet, Vista ¹⁰	2000 Pro, XP, XP Tablet, XP Pro x64, Vista	Mobile 5, Mobile 6, 2000 Pro, XP (Home, Pro or Tablet), Vista
System Requirements	800 Mhz processor (1 Ghz recommended), 256 MB RAM (512 MB recommended), 700 MB disk space, 300 MB swap space	Intel x86, 160 MB disk space (plus data), Internet Explorer 5.0 or later	Mobile Device: 32 MB RAM (at least 8 MB free memory), 200 MHz processor Field Computer: 64 MB RAM (at least 8 MB free memory), 500 MHz, 8MB Disk Space
Receiver Compatibility (data collection)	Pro XT/XH, NMEA ¹ , others ²	N/A	Yuma, Juno SB/SC/ST, Nomad, Geo XM/XT/XH, Pro XB/XC/XR/XRS/XRT/ XT/ XH
Native data format	Personal geodatabase	Trimble SSF	Trimble SSF
Rebuild features	Yes ³	No	N/A
Validation	Yes ⁴	No	N/A
Batch Processor	No	Yes	N/A
Differential Correction	Yes	Yes	N/A
H-Star Collection	Collection & Processing supported	Processing supported	Collection supported
Export⁵	SSF, AXF with SSF, DDF, any format supported by ArcGIS	16+ formats, including SHP, DXF, MIF, etc.	SHP
Data Dictionary Editor	No ⁶	Yes	Yes
QuickPlan	No	No	Yes ⁷
Import	SSF ⁸ , ArcPad SHP or AXF with SSF, any format supported by Arc GIS	DXF, dBase, SHP, MIF, MDB	SHP
SSF Record Editor	No	Yes	N/A
Configurations	No definition or use of configuration files	Configuration files can be defined	Configuration files can be used
Connection Manager	No	Yes	N/A
Timeline Display	No	Yes	N/A
Simultaneous Feature Collection	Yes	N/A	No
Check In/Check Out For ArcPad and GPScorrect	Yes	No	N/A
Offset	Line, Area	Point, Line, Area	Point, Line, Area
Segment	No (workaround)	N/A	Yes
Repeat	No	N/A	Yes
Continue	No	N/A	Yes
Laser Rangefinder	No	N/A	Yes
External Sensor	No	N/A	Yes ¹¹
Navigation	Yes	N/A	Yes
Update features	Yes	N/A	Yes
Logging Interval	Time, Distance, Angle of deflection ⁹	N/A	Time, Distance

Please see notations on reverse side.



P. O. Box 31 • Jerome, ID 83338 • Phone: 1-208-324-8006 • Fax: 1-208-324-8015
www.elecdata.com

www.trimble.com/gpsanalyst.shtml

¹Not post-processable.

²Dependent on development of GPS receiver plug-in by third party.

³Rebuild works hand in hand with validation to ensure that only certain GPS positions are used in the construction of features in the geodatabase. For example, a point feature that is made up of 12 positions may have one outlier. The feature can be rebuilt with an estimated GPS accuracy filter set. Less accurate positions will not be used in the construction of features.

⁴GPS feature validation allows you to check that any feature with a geometry derived from GPS data meets your estimated accuracy requirements. Features can then be reviewed, edited, rebuilt, or marked as exceptions.

⁵Data collected using GPSAnalyst is already part of a personal geodatabase, so there is no export step needed to make it useable in ArcGIS. Data collected by TerraSync however must be imported to the geodatabase.

⁶Data dictionaries can be exported out of GPSAnalyst, but not created or edited. Feature datasets with feature classes will become data dictionaries with features and attributes. Domains will become menu attribute values and/or numeric min/max values.

⁷The Plan module in TerraSync does not support planning for future dates or locations other than the present GPS position.

⁸Technically only SSF files collected in TerraSync 2.4 or greater or GPSCorrect 1.01 or greater are supported, although SSF files created by the latest Data Transfer Utility will work.

⁹Angle of deflection can be used in conjunction with time- or distance-based logging to record sinuosity of line or area features more smoothly. For example, if distance-based logging is set to 50 feet in conjunction with a 5 degree angle of deflection logging setting, when you start to go around a curve, every time your direction changes by 5 degrees, another GPS vertex is captured.

¹⁰Requires ArcGIS 9.2 Service Pack 4 or ArcGIS 9.3 for Vista compatibility.

¹¹TerraSync now includes integration with TomTom, CoPilot and other commercial navigation software.



P. O. Box 31 • Jerome, ID 83338 • Phone: 1-208-324-8006 • Fax: 1-208-324-8015
www.elecdata.com

www.trimble.com/gpsanalyst.shtml