

RELEASE NOTES

PENMAP SOFTWARE

VERSION 10.6
REVISION B
JANUARY 2017

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Penmap software version 10.6

These Release Notes contain information about the Penmap software version 10.6.

Penmap is a premium data collection software, specifically designed for cadastral surveying, mapping, GIS data collection and land registration tasks. Compatible with a suite of controllers running Windows® 10, 8.1, 8, 7 or Mobile operating systems, Penmap's revolutionary user interface provides the industry's largest map real-estate, is designed to be operated with your fingers and provides the world's first right- or left-handed modes for better ergonomics.

Revision B

We have released a new Penmap Version 10.6.2.5821, because a problem with the prism constant was found in conjunction with the tracking mode.

New software features and Hardware support

- Support of alphanumeric point number
- Increase the number of parallel usable iFeatures
- Stakeout report to allow user to review staked point deltas
- Enable of Penmap support diagnostics via Penmap Launchpad settings
- Polyline snap
- Extend the UNV format with GNSS information
- Support Time Dependent Transformations (RTX coordinate systems)
- Update Trimble Geodetic Library to released Version 2.0.0.17
- Support south azimuth for south Africa coordinate systems
- Bulgarian language support
- Danish language support
- Implement Trimble Connect interface into the Penmap Windows Launchpad
- Save the project always automatically when closing the project or the software

Enhancements

- Improve the integrated surveying resection
- Improve the total station stake out graphic
- Improve the UNV Import process
- Control layers via GIS attribute including field type "tree"
- Avoid the change of an antenna height or deleting a point which is used in the GNSS calibration
- Bluetooth scanning for a Trimble R10 works now the first time
- WMS support in Belgium was not working
- Improvements to map tile support and clean up provider list
- Add offset function is not working correct

- Issue with prism constant during stakeout
- Improve Autolock activation for Trimble 5600
- Internal Trimble radio module was not working with Penmap
- SHP export did not export graphics-only objects on Windows mobile platform
- Shape export was not filtering to visible layers
- DTM on/off switch was not available in Windows mobile
- Support vertical accuracy (RMS) on Trimble Geo7x
- Area splitting did not work when multiple graphics are stacked
- Parallel offset did not work for height calculations
- Issue with reduction during free stationing
- COGO construction graphic was shown incorrectly when using parallel
- Synchronisation of map packs did not work
- DBEdit crashed while deleting a field
- Construction graphic in COGO chain/offset was shown incorrectly
- After zooming two different map scales were displayed
- Penmap crashed if total station compensator moved out of range
- Trimble Geodetic Library is not working on some Windows 10 systems

Software and Hardware Requirements

Supported operation systems

Penmap 10.6 is running on Windows 7, 8, 8.1 and Windows 10. The version 10.6 supports 32 Bit and 64 Bit Systems. The PDA Version of Penmap 10.6 will run on Windows Mobile 6.5

Supported instrument interfaces

Hardware	Manufacturer	Model	min. Version / Firmware
Total Station	Trimble	Trimble S3	M2.2.18
Total Station	Trimble	Trimble S5	H1.0.18
Total Station	Trimble	Trimble S6	R12.5.44
Total Station	Trimble	Trimble S7	H1.0.18
Total Station	Trimble	Trimble S8	R12.5.44
Total Station	Trimble	Trimble S9	H1.0.18
Total Station	Trimble	Trimble 5600 / Geodimeter 600	
Total Station	Trimble	Trimble M3 Pro	
Total Station	Trimble	Trimble LaserAce 1000	
Total Station	Leica	Leica TPS 400	
Total Station	Leica	Leica TPS 800	
Total Station	Leica	Leica TPS 700	
Total Station	Leica	Leica TPS 1100 *	
Total Station	Leica	Leica TPS 1200+ *	
Total Station	Leica	Leica TPS Viva TS15 *	
Total Station	Leica	Leica Builder	
Total Station	Leica	Leica TS 02/06/09 Flexline	
Total Station	Leica	Leica Redline	
Total Station	Nikon	Nikon	
Total Station	Nikon	Nikon DTM 310/400/700	
Total Station	Sokkia	Sokkia SET	
Total Station	STONEX	R5	
Total Station	STONEX	R6	
Total Station	STONEX	R9 Robotic *	
Total Station	Spectra Precision	Focus 10	
Total Station	Spectra Precision	Focus 30	
Total Station	Manual keypad entry		
GNSS Receiver	Trimble	5700	2.34
GNSS Receiver	Trimble	5700 II	4.44
GNSS Receiver	Trimble	5800	2.34

GNSS Receiver	Trimble	5800 II	4.44
GNSS Receiver	Trimble	Trimble R1	5.03
GNSS Receiver	Trimble	Trimble R2	5.11
GNSS Receiver	Trimble	Trimble R4	4.44
GNSS Receiver	Trimble	Trimble R5	4.44
GNSS Receiver	Trimble	Trimble R6	4.44
GNSS Receiver	Trimble	Trimble R7	2.34
GNSS Receiver	Trimble	Trimble R7 GNSS	4.44
GNSS Receiver	Trimble	Trimble R8 GNSS	4.44
GNSS Receiver	Trimble	Trimble R8s GNSS	5.01
GNSS Receiver	Trimble	Trimble R10 GNSS	5.01
GNSS Receiver	Trimble	Trimble LA-ProXRT	
GNSS Receiver	Trimble	Trimble Pathfinder	
GNSS Receiver	Trimble	Trimble GeoXH,XT,XM	
GNSS Receiver	Trimble	Trimble GeoExplorer 6000	
GNSS Receiver	Trimble	Trimble Geo7x	
GNSS Receiver	Trimble	Trimble Nomad	
GNSS Receiver	Trimble	Trimble Juno	
GNSS Receiver	Trimble	Trimble Yuma	
GNSS Receiver	Leica	GPS 1200+	
GNSS Receiver	Leica	Zeno GG03	
GNSS Receiver	Leica	Viva GS16 / GS15 / GS14 / GS10/**	
GNSS Receiver	STONEX	STONEX S3	
GNSS Receiver	STONEX	STONEX S7-G / -D	
GNSS Receiver	STONEX	STONEX S8	
GNSS Receiver	STONEX	STONEX S9 I+II GNSS	
GNSS Receiver	STONEX	STONEX S9III GNSS	
GNSS Receiver	Panasonic	Panasonic FZ-G1w/ integrated GNSS	
GNSS Receiver	SiRF	SiRF binary	
GNSS Receiver	Windows	Windows Mobile GPD	
GNSS Receiver	NMEA	NMEA	NMEA (GGA, GSA, GST, GSV)
GNSS Receiver	Topcon	Topcon Legacy	via NMEA
GNSS Receiver	Topcon	Topcon HiPer	via NMEA
GNSS Receiver	Topcon	Topcon GR-3	via NMEA
GNSS Receiver	Topcon	Topcon GRS-1	via Windows Mobile GPD
GNSS Receiver	Ashtech/Magellan	Ashtech/Magellan ProMark 500	via NMEA
GNSS Receiver	Ashtech/Magellan	Ashtech/Magellan MobileMapper 6	via Windows Mobile GPD
GNSS Receiver	Sokkia	Sokkia GSR 2700ISX	via NMEA

* Advanced GeoCom option is needed for robotic use

** OWI option is needed

Support Notes

- Installation
 - Due to updates of some Trimble components you have to uninstall old versions of the components before installing the new version of Penmap. Go to the Windows setting “Programs and Features” and uninstall:
 - “GPS Pathfinder Field Tools Components”.
 - “Trimble Precision SDK ...”.
- Warning message during the installation process
 - If you get the warning message, that the installation was not able to register the “rapi.dll”, you can ignore this message and proceed with the installation process.
- Windows 10 support
 - If you work on a Windows 10 Tablet PC with Penmap you have to use the Windows 10 “Desktop” mode. The Penmap UI does not support the Windows 10 “Tablet” mode.