

Cadastral Surveying

Penmap.NET is designed to be the ideal tool for Cadastral Surveying, Mapping, and Land registration. Penmap.NET is unique in that it provides a complete surveyors digital plane table with complete GPS and Total Station functionality on site.

- *Direct Logging of Total Station and GPS Data*
- *Free Station Calculation*
- *Full **ArcGIS** interface*
- *Full Parcel Editor*
- *Setting Out*
- *Area Computation*
- *Capture Photographs, Signatures, and even Fingerprints*
- *Multiple and Verification Measurements*
- *Full 3D Surveying*
- *Configurable Point Numbering*
- *Configurable Code Tables*
- *Runs on PDA, TabletPC, or even Mobile Phone*

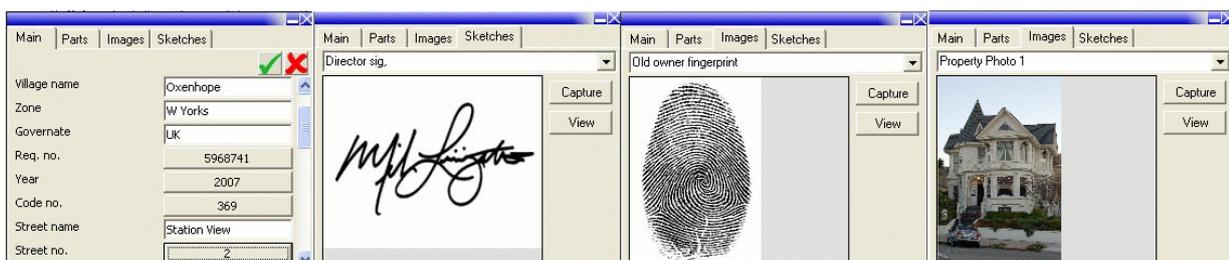


Penmap.NET provides a common interface to many survey techniques

Field conditions require many different techniques for surveying. Penmap.NET is unique in providing a common data collection and processing system for GPS, Total Stations, and other methods. Instead of having a GPS data collection system, a Total Stations system, a levelling system, ect, Penmap.NET is one system that will work with many types of equipment. This reduces training time and greatly reduces costs.

Penmap.NET is GIS in the field

Penmap.NET contains not just all the surveying techniques for Cadastral survey but also does full GIS data collection and editing. Not only can the geographical component of Parcel databases be collected but also the attribute information such as Owner information, Address, and Parcel Number.

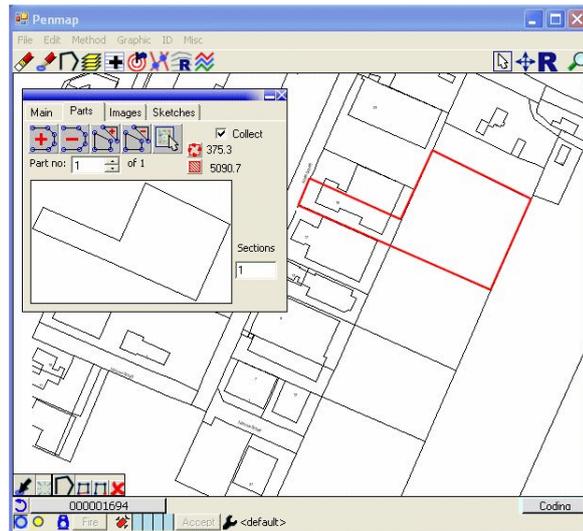


Penmap.NET is a truly Graphical system

In Penmap.NET what you see really is what you get. Because everything in Penmap.NET is graphical all data can be displayed in real time on the screen as it is collected. This includes all background and existing maps in both Vector and Raster formats.

Parcel Editing becomes easy

With Penmap.NET's on site parcel editor, parcels can be cut, added, and changed right there in the field. Perimeter length and Area calculations all done in real time.



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Working with GPS right on your map

Working with Penmap.NET and GPS is as simple as working with a Total Station or any of the other surveying techniques. Penmap has the best GPS interface in the world because it not only has the best means of doing a GPS survey but it also has all of the other surveying tools in our 'Digital Plane Table' to get the points where GPS will not work (i.e. under trees, buildings, etc.). Penmap.NET can operate with real-time accuracy's of as little a 5mm. When a GPS receiver is attached to Penmap.NET the User sees the 'You are Here' cursor and then the data points are logged just like with a Total Station. So Penmap provides a common platform across surveying because the surveyor can use Penmap.NET with a GPS and then Connect a Total Station to exactly the same unit and finish the survey.

Penmap.NET is your Total Station data logger

Connect Penmap to your total station and all data will appear graphically on the screen in real time. As the prism moves Penmap will draw the survey on the screen. Correct geodetic survey technique is followed at all times and over 50 types of total station are supported.