Penmap® – Surveying for Everyone.

Penmap Applications

An Open Software for all of your tasks and ideas

We at HHK Datentechnik are passionate about making GIS and Surveying data collection easy and fast. We believe in open software solutions to secure your investment: Penmap connects to the most popular GNSS, Total Stations and Laser Rangefinders and allows you a seamless data exchange with your favorite GIS or CAD package. We want to give you the free choice in combining your surveying and mapping system for best performance and value.

Topographic Survey and Stakeout

In Penmap what you see really is what you get. Because everything in Penmap 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. The Visual Stakeout™ function enables you to stakeout points and line work straight from your drawing without the need of converting them into point lists.

Use your existing layer and symbol definitions from your office CAD and sync them with Penmap. In that way you not only have full control of completeness and correctness of your topographic work on-site, but also lets you return with a finished CAD drawing to the office without any additional effort.

Utility Mapping

Penmap's unique user interface is completely configurable to cater to users with a wide range of skills. So Penmap technology can be implemented at a wide range of levels and support day to day operations. All tasks performed in Penmap can be immediately integrated with the corporate GIS, like ArcGIS, GE Smallworld GIS, AutoCAD Map, GEOgraf and others. Penmap has a full sketch facility to allow users to draw by hand the interior of manholes and other assets.

Applications in the fields of: Environment, Forestry, Geology, Archaeology

With a variety of GPS options, Penmap can give you a "You are Here" cursor directly on the map. Mapping an area is as simple as walking/driving around the area. Add a Laser distance meter to this and now you can map what you see from your GPS position without having to even go there. The realtime GPS provides differentially corrected data on the pen computer or PDA as data is collected. This provides instant verification on-site that the data is correct as its position on the map is viewed.

Both Geophysical and Environmental data can be collected and processed along with the geographical data from the site. These data sets can be superimposed and processed separately or together.

Penmap Benefits at a Glance

Penmap combines powerful visualization and data management with high-accuracy positioning to deliver richly complete maps and datasets to your GIS, surveying or CAD system. Now, with the introduction of new Penmap, you'll work faster, easier and get better results. Here are 10 ways that Penmap works for you:

1. Confidence

Penmap always provides you with a map view of your job. Everything that you are collecting is displayed on the map in realtime, including your current position. This highly improves the quality and completeness of your data and gives you peace of mind that you have collected everything completely and correctly before leaving the site.

2. More Space for Your Maps

We don't accept compromises between large buttons for easy operation and a gorgeous map display! The upper and lower button bars are translucent to show you the largest map real-estate possible. You get an almost "Tablet PC feeling" on a lightweight, convenient and affordable PDA device.
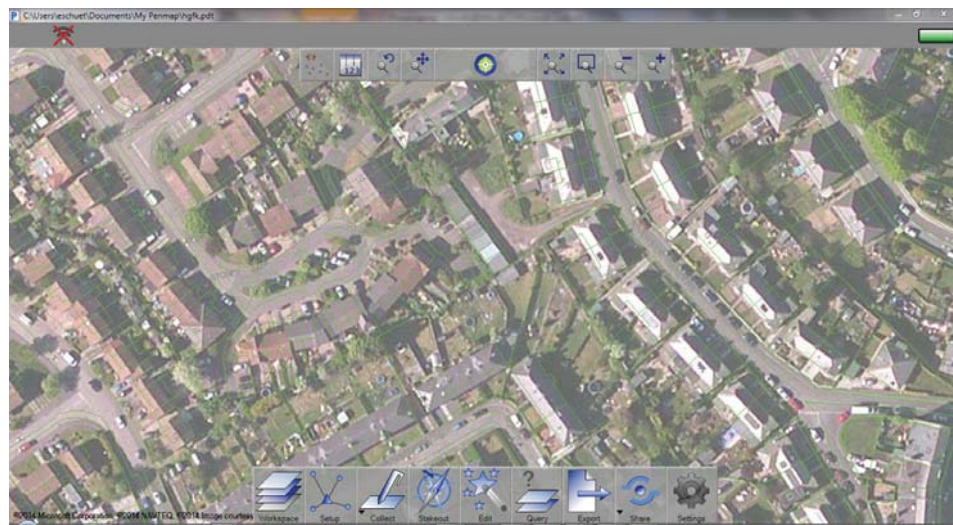
3. Revolutionary user interface - Touch Your Data

The Penmap experience is a new and more enjoyable way of operating surveying and mapping software. Penmap is designed to be operated with your fingers. You don't need a stylus that you could easily lose or forget. It's fast and easy to control and navigate your data and map with just a touch of your finger. Now you can even Touch Your Data.

4. Easy to use. Really.

Penmap s designed to be used immediately. You don't need to be a surveying expert or go through a long learning curve. Because you always see what you are doing in realtime, using

Penmap allows the use of WMS raster data also offline in the field.

Penmap is like drawing a sketch or map on paper. And no worries about mistakes — Penmap's Undo function can remove errors instantly.

5. Quality control made easy

Penmap makes quality control easy and intuitive. All important status information, including number of satellites, accuracy level and battery status are visible at all times. Additional information is always accessible, and you are not overloaded with unnecessary detail. Penmap's unique, color-coded GPS cursor makes it simple to produce data within your required accuracy level. Penmap also stores complete surveying meta data for reporting and quality control.

6. Dramatically reduce office processing

With Penmap you can complete most of your project right in the field. You return with a complete CAD drawing or high quality GIS data. Your office tasks get reduced to just a final touch or printing, enabling you to deliver - and invoice - your projects faster than ever.

7. Finish your field work faster

Penmap makes data collection and stakeout 10-15% faster than traditional surveying methods: With 2 or 3 clicks you can select any feature. It's even faster than entering codes using a controller keyboard.

8. Collect multiple features in parallel with iFeature™

Do you need to collect multiple features simultaneously, such as a curb together with sewers and lamp posts? Or even multiple line features: a curb, a pathway and a fence without the need to finish one feature first? Penmap's unique iFeature™ system manages multiple features. It reduces your walking distance and saves time.
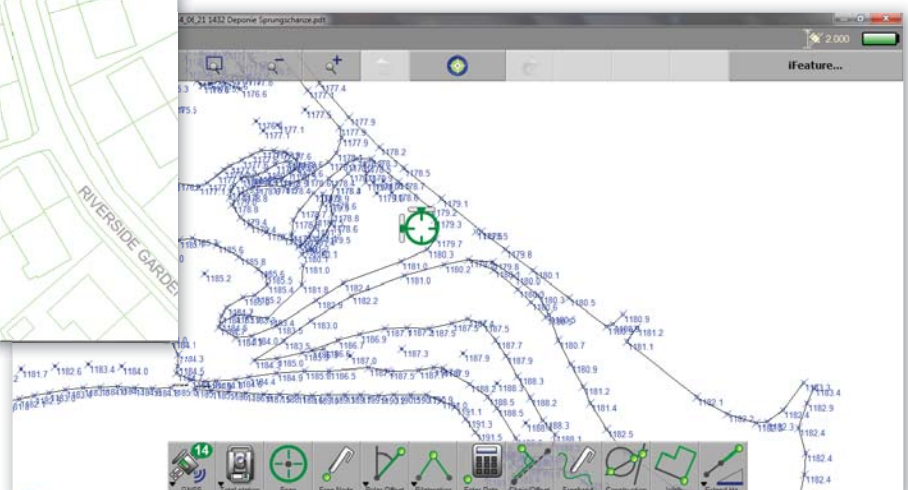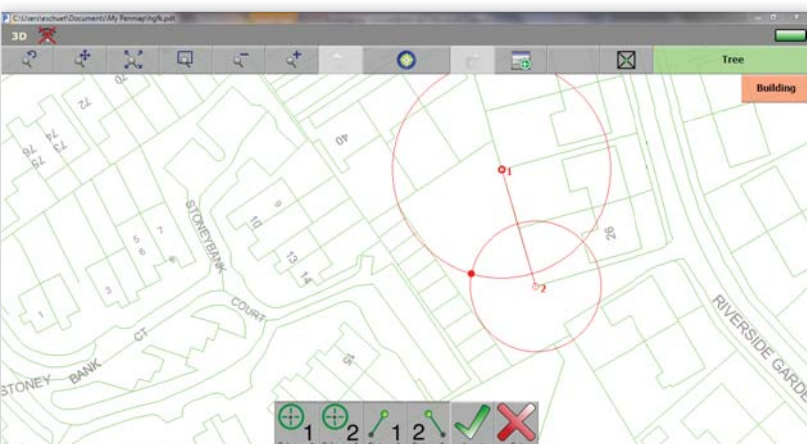
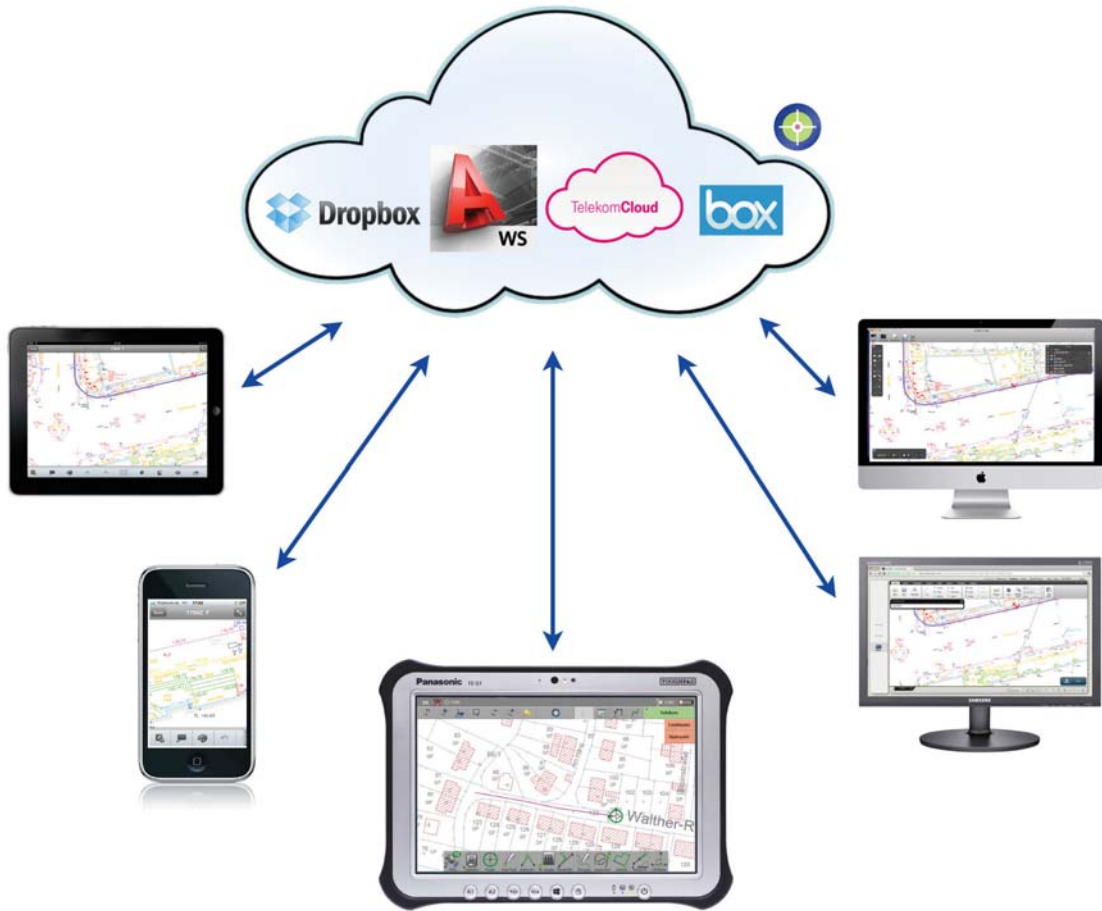## 9. Experience the highest flexibility in data collection

Data collection should meet your workflow, not a software structure! How often do you experience that you can't collect a complete line feature, like a curb or utility with GPS or Total Station alone? Sometimes you need to combine GPS or Total Station measurements with COGO to get all of the points you need. With Penmap, you can switch easily between more than 10 methods during data collection of a single feature.

10. Powerful CAD tools at your fingertip

Penmap provides simple CAD or COGO tools to speed your field work. Collecting features not accessible with GPS can require a new, time-consuming instrument setup. Penmap's unique Visual Bilateration™, Visual Chain&Offset™, and Visual Intersection™ methods complement Penmap's powerful set of surveying and mapping tools.

Penmap Cloud™: Share & Backup

Penmap Cloud™ is a free service for sharing your survey data between field and office and to backup your data. With a single click you can push your survey data from the field to the Penmap cloud. Using free services like AutoCAD® 360, data can be reviewed and edited on multiple platforms, including iPhone, iPad, Mac, and any webbrowser.

In addition you can use Trimble Connected Community, Dropbox, Box.net or your own service for sharing and backup your data. So your office team can already give your field data the final touch and deliver & invoice the finished drawing to your client while the field crew is still on their way back or already to the next site.

Supported Operating systems
- Windows Mobile 5.0, 6.0, 6.1, 6.5 and higher
- Windows XP, Windows 7, Windows 8, Windows 10
- Android Version 5 and higher

Supported Instruments and Sensors
- Total Stations/Robotic: Trimble, Leica, Nikon, Sokkia
- GNSS: Trimble, Leica, Javad, Stonex, NMEA
- Laser: Leica Disto, Trimble Geo7x, Trimble LaserAce 1000
- Echosounder
- Magnetometer
- Underground utility detectors
- Other interfaces on request

Mobile Geodata Software to Power your Business

For the past 20 years we have enabled hundreds of clients in a diverse range of industries around the world, to mobilize their workforces in the creation, collection and maintenance of spatial data while in the field. Our unique approach to field based systems saves time and increases productivity. Our "Open Systems" design philosophy ensures that as new operating environments become mainstream and demand for system levelintegration increases, we are able to support these demands quickly and efficiently. In this way we provide security of investment and future growth for our existing users. As part of the Trimble organization, Penmap supports clients and distributors in more than 30 countries around the world.

For further information on the Penmap family of data collection products please contact us.

Authorized Penmap Distribution partner

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Mit uns in eine neue Dimension.

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