



# Penmap for Android

## SOFTWARE

### TECHNOLOGY MADE TO WORK FOR YOU

Too often, technology is made for the sake of technology. It can be great, but not practical or usable without a whole lot of up-front work. But that's changing.

Trimble® Penmap® for Android™ is a powerful, yet incredibly straightforward cloud-connected application for field surveying and high-accuracy GIS data collection. It's designed to do all the basics well, and provide an intuitive and effective interface for entering and managing features and attributes. Penmap supports a select set of essential features so it's focused, efficient, and easy to use—ideal for the work you need done.

#### Trimble GNSS

If you're looking for something professional yet cost-effective, combine Penmap with the revolutionary Trimble Catalyst™ system. Together, they make a convenient, lightweight, and flexible kit. Trimble Catalyst is a software-based GNSS receiver that only needs an inexpensive antenna to provide survey-quality positions. Catalyst works with Trimble correction services or your local correction service provider to deliver real-time corrections for precise RTK quality positions with the Catalyst receiver. Or, you can choose different accuracy levels depending on your needs.

Full-featured Trimble GNSS receivers such as the R2, R8s, and R10 are also supported.

#### Trimble Connect

The data you collect in the field is synced with Trimble Connect cloud services. Connect is a collaboration platform which lets you set up, organize, and deploy projects to your field crews. Data is sent back to the office in real-time where it is stored, shared, and collaborated on with other members in your organization.

#### Data Collection

Penmap makes basic cadastral, topo, and other field data collection tasks easy. With a map view of your job, all data is displayed in real-time, including your current position, so you can ensure all necessary information has been captured. Improve the quality and completeness of your data and have peace of mind that you have collected everything before leaving the site.

#### Energy Distribution

Penmap offers flexibility. It has the power to be a productive tool for seasoned professionals, while its map-centric interface and uncomplicated process is perfect for novice crews. Collect precise locations for your infrastructure, record essential information like encroachments, clearways, and existing monuments—all with an intuitive system designed for smart devices.

#### Survey Managers

Penmap is great for survey managers who need to occasionally check on field work, or to help solve problems for their field crews. You no longer need to search the office for old equipment and battery chargers in order to go into the field for a day. Just grab your phone, your Catalyst antenna, and head out. Or, use an older Trimble receiver that you've retired from active service. Either way, it's economical and saves you from wasting time.

#### Just Starting Out?

If you're starting out and building your business, then Penmap with Catalyst is the ideal solution. Cost of entry to this system is extremely low as Penmap and Catalyst can be purchased with a monthly subscription. Or perhaps you bought an older Trimble receiver but the data collector is going to consume the rest of your budget. Again, Penmap is ideal since it will run on a variety of Android devices that you can buy locally. Alternatively, purchase an Android-based Trimble TDC100 handheld to use with any Trimble R-series GNSS receiver for an effective, ruggedized system.

### Key Features

- ▶ Provides core survey functionality including topo and boundary surveys, stake-outs, QA/QC checks, and records/stores all measurement data
- ▶ Supports Trimble Catalyst giving very low initial cost of ownership and flexible plans for a complete surveying/GIS system
- ▶ Includes a powerful feature and attribute system fully compatible with industry standard surveying/CAD, GIS, and data management applications
- ▶ Syncs with Trimble Connect cloud services for easy upload and transfer of data between office and field and back
- ▶ Runs on Android devices such as your own smart phone, or a fully rugged device like the Trimble TDC100 handheld paired with a Trimble R-series receiver



## STANDARD FEATURES

### Supported operating systems:

- ▶ Android v4.6 or higher

### Data collection

- ▶ Points, lines, polygons
- ▶ Photos
- ▶ Point number and code
- ▶ Features and attributes

### Supported instruments:

- ▶ Trimble R-series GNSS receivers (R1, R2, R8s, R10)
- ▶ Trimble TDC100 handheld
- ▶ Trimble Catalyst with the DA1 antenna<sup>1</sup>

### Background maps

- ▶ Google Maps, Bing Maps
- ▶ Google Satellite, Bing Satellite
- ▶ DXF/DWG support
- ▶ .SHP files

### Graphic elements

- ▶ Layer management
- ▶ Points
- ▶ Symbols
- ▶ Polylines
- ▶ Arcs
- ▶ Text

### Import/Export

- ▶ DXF, DWG
- ▶ Esri Shape files
- ▶ CSV files
- ▶ Data synchronization between field and office via Trimble Connect

### Surveying methods:

- ▶ GNSS
  - Realtime: VRS, NTRIP, RTX
  - Worldwide coordinate systems
  - Local adjustment
  - Visual quality indicators
  - Collection modes: single, average
- ▶ Snap
- ▶ Free node
- ▶ COGO tools
  - Bilateralation
  - Chain and offset
  - Extend
  - Construction lines and points
  - Intersection lines, parallel, oblique, circles
- ▶ Enter data
- ▶ Site calibration
- ▶ Stake out
- ▶ Topographic
- ▶ GIS: ifeature system
- ▶ Work on/offline

<sup>1</sup> Catalyst does not support the Trimble TDC100 handheld

Contact your local Trimble Authorized Distribution Partner for more information

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