



# Software **tSurvey2.0**

Industrial Surveying Software

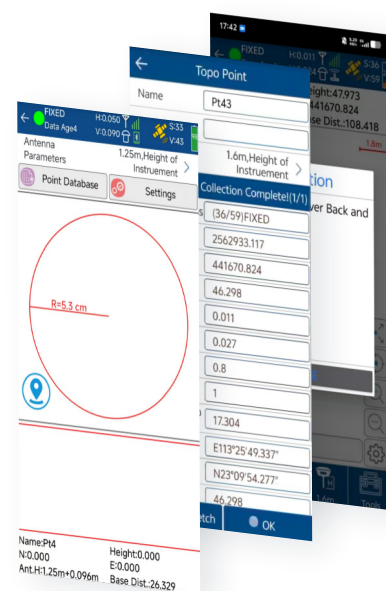
# tSurvey2.0 Software

tSurvey 2.0 is a powerful engineering measurement software developed by TOKNAV. It supports multiple languages and powerful measurement functions. With a variety of coordinates system and projection methods, it empowers users to work with convenience and precision wherever they are.

## CHARACTERISTIC

### Data Collection

tSurvey 2.0 supports multiple high-precision data collection methods and offers excellent stability and reliability. Even in complex environments, it ensures accurate data through multiple algorithms. The software not only supports tilt measurements but also integrates various measurement modes—such as terrain points, control points, rapid points, continuous points, coded points, and static data measurement—within its point measurement functionality. This enhances operational efficiency and fully meets the requirements of diverse scenarios. With built-in Google Maps as well as WMS and WFS map services, tSurvey 2.0 allows flexible use of both online and offline maps, providing comprehensive support for various engineering applications.



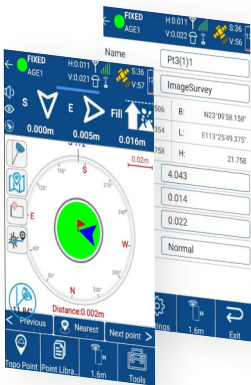
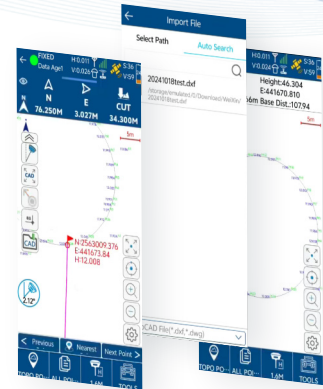
### Point Stakeout

The point stakeout feature leverages high-precision positioning technology and combines intelligent voice prompts with AR (Augmented Reality) to provide users with an intuitive and immersive stakeout experience. The software can display real-time satellite tracking status, the number of available satellites, HRMS/VRMS accuracy indicators, as well as the azimuth and distance to stakeout targets, ensuring every operation is precise and reliable.



## CAD Stakeout

The CAD stakeout feature is built on advanced CAD data management technology and fully supports the import of mainstream file formats such as DXF and DWG. With precise object snapping functionality, it allows design data to be quickly and intuitively converted into stakeout points, enabling efficient and error-free field surveying.

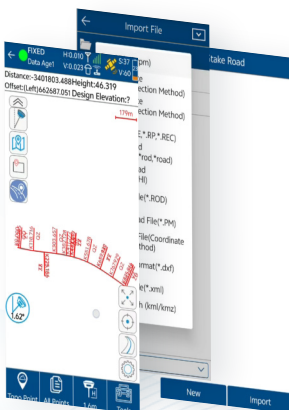
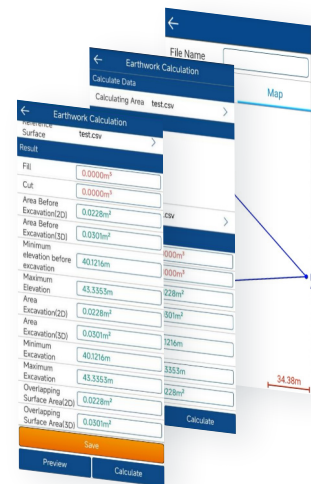


## Laser Stakeout

The laser stakeout feature brings speed and precision to the surveying process. Combined with an optimized tilt measurement correction algorithm and an efficient workflow, the software not only significantly enhances stakeout accuracy but also greatly reduces construction time, making every measurement efficient, reliable, and flawless.

## Volume Calculation

The volume calculation feature relies on precise measurement data and advanced computational algorithms to quickly and accurately determine the volume of a specified area. The software supports the import and export of various data formats, including TXT, CSV, DAT, DXF, XML, and SJW, facilitating data management and analysis. In addition, the volume calculation function provides graphical previews, allowing users to visualize and better understand the results.



## Road Applications

The road application feature provides a comprehensive solution for road engineering, including road design and stakeout. The software supports various road file formats (such as \*.xml, \*.ip, \*.rec, \*.dxf, \*.rpm) and integrates road design tools, enabling easy design and stakeout of road alignment, cross-sections, and vertical curves. This offers strong support for the efficient execution of road engineering projects.

# SPECIFICATION

## Software Information

Operation System	Android 8 OS or higher
License	Online activation & Online registration code
GNSS Receiver	T Series, P8 Series GNSS device that support NMEA 0183 format, Correction data: RTCM 2.X, 3.X; CMR; RTD
Data Collector	PCR100T/ PCR300/ PCR500 data collector Android device (Android 11,9 ,12 OS)

## Software Features

Coordinate System	Coordinate System Template Custom Ellipsoid Parameters Vertical Control Parameter Vertical Adjustment Parameter Geoid files & Grid files Grid to Ground Local Offsets Parameter Encrypt & QR code Shareing
Features Processing	Code Table Manager Various features of point/ line/ polygon Import Codelists
Survey	Auto Collection(By Time/Dist.) Average Survey TOPO Survey GNSS Localization PPK Auto join Line&Polygon Photogrammetry AR Measurement Laser Surveying Code method
Stakeout	Point/ Line/ Polygon Stakeout Road & Slope Stakeout AR Stakeout CAD Stakeout Elevation Control North or Forward direction
Advanced Function	CAD Draw Road Design
Tool	Area&Volume calculation Angle&Coordinate conversion Coordinate inverse calculation Intersection calculation Azimuth calculation 3D Distance Two Line Angle Extend Point Caculation Vertical Caculation Equal Point Caculation Offset Caculation Average Share File

Map Function	Google Map/Satellite/ Openstreet Map WMS,WFS
Project	Project configuration, Datum configuration, Basemap, Code list, Import & Export, Element library etc.

Unit	Meter US Survey Feet International Feet Centimeter Millimeter Inch Degree, Gon, DMS, Radian Decimal Degrees(old)
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## MODE

Base	Internal Radio External Radio Device Internal
Rover	Internal Radio External Radio Device Internal Data Collector Internet PPP Xlink
Static	Support static data record

## Supported file formats

Import	CAD Data(*.dwg, *.dxf) Triangulation File (*.sjw *.xml *.dxf) Elevation List(*.TIN) LandXML (*.xml) LandXML TIN File (*.xml) Road File (*road, *.road2, *.XY, *.hjd, *.rpm) Coordinate Systems (*DC, *.ECTP *.CTP *.SP *.CSP) Shape File (*.shp) Geodetic Coordinates and Spatial Coordinates (*txt, *, *.csv, *.dat) SurvCE RW5 File(.rw5) PXY File(.pxy) SIMA File(.sim)
Export	Survey Point Format(.csv) Survey Point Format(.xls) Case Format(.dat) Local Coordinates(.dat) Geodetic Coordinates(.dat) VAutoCAD Format(.dxf) Google Earth(kml/kmz)(.kml) Google Earth (kml/kmz)(.kmz) Track File Format(.gpx) DOL File Format(.csv) DOL File Format(.html)

## Supported protocol

Transmission Protocol	TCP, Ntrip,wifi(T Series),Bluetooth
UHF protocol	CSS, South, Trimtalk, Satel, TRIMMK3,Hitarget

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Manufacturers may update parameters at any time, please refer to the latest product information.



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