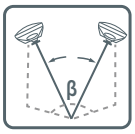
XT Survey

XT Survey Controller Software

Xtragen Technologies Private Limited



Tilt survey

Quasi-dynamic survey

XT SURVEY

CAD

CAD Stakeout

Road design

PPK

PPK

XT Survey is a specialized and user-friendly Android application for field surveying operations such as Detail Survey, Point Stakeout, Cadastral, Surveying, Road Design, and Data Exchange. It offers tilt survey, quasi-dynamic, PPK, and static surveying modes. XT Survey, with built-in NFC, Bluetooth, and FTP features, offers an industrial solution for efficient fieldwork.

Detail Survey

XT Survey supports a wide range of data collection methods, including tilt survey, quasi-dynamic survey, PPK collection, and static collection. In the Detail Survey interface, users can adjust collection accuracy, set stakeout standards, and monitor key information such as the number of satellites, solution status, correction age, and positioning accuracy.

Connection Methods

XT Survey offers several features to streamline user operations, such as initiating a Bluetooth connection through the NFC shortcut mode, eliminating the need to manually search for the device number. Users can also quickly register and access the most recently saved coordinate system by scanning a QR code. Additionally, with FTP transmission, users can transfer files over the same network without the need for physical cables.

Point Stakeout

The enhanced stakeout function improves efficiency and accuracy by allowing users to do point stakeout without having constantly focusing at the program interface. With intelligent voice instructions and a built-in compass, users can simply identify the best route for point stakeout. Additionally, the Point Stakeout tool accepts DXF and DWG file formats for both point and line stakeout. Users can accomplish stakeout jobs with ease by using object snap functions including INT, TAN, PER, and NOD.

Data Exchange

Data Exchange supports a variety of mapping options, including Google Maps, Google Satellite Maps, GIS Offline Maps, and OGC map services such as WMS, TMS, WCS, and WFS for data collection. Additionally, it is compatible with third-party rangefinders, enabling more precise measurements of distance and angles.

XT Survey

Xtragen Technologies Private Limited
Enabling connectivity between Technology & People

Features

Operating systems

Android 10 or above

Supported instruments

Xtragen GNSS RTK receiver
Xtragen Android handheld controller
3rd-party Android devices

Background maps

Google hybrid

Google terrain

Google maps

Google satellite

GIS map

Project management

Project information
Coordinate system management
Parameters calculation
Code list

Data management

Collection data: Point, line, polygon
Import format:
*.DXF, *, *SHP, *.KML, *.DWG
Export format:
*.TXT, *CSV, *.SHP, *DAT, *ASC,
*.KML, *.NCN, *.geojson.
Road data:
*.ROAD, *.Xml, *.BCP, *.SEC, *.PM,
*.ICD, *.PHI, *.XY, *HJD, *.ZLINE,
* PVI, *TPL, *.BPI, *.BCI

COGO

Compass
Volume
Coordinate system
FTP
Calculator
Intersection
Angle calculation
Distance
Share
Dist and Azi
Point and line
Area
Angle

Road survey

Surface
Elevation difference
Cross-section
Store cross-section
points Road design
Road stakeout

Surveying methods

PPK survey
Tilt survey
Detail survey
Mapping survey
Static
Quasi-dynamic survey

Road measuring Functions

Road Planning

Road Planning includes features for creating Centerlines, Profiles, Cross-Sections, Side-Sections, Broken Chainages, and Construction Designs.

Road Survey

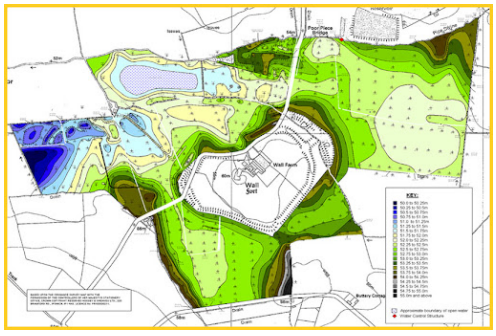
The Road Survey interface in XT Survey offers both road overview and cross-section views, allowing users to switch between them based on specific stakeout requirements.

Profile View

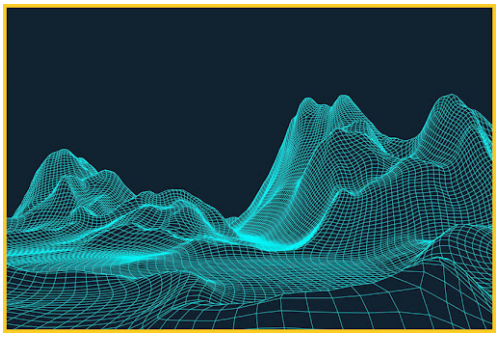
Profile View features Intersection, Element, and Coordination Road algorithms, enabling users to survey and store cross-section points in the "Store Cross-Section" function to capture the terrain's undulations.

Calculation Tools

The built-in tools for Transition Curve, Volume, Angle Calculation, Distance, and more support parameter calculations, enhancing the efficiency of road engineering measurements.



Mapping



Digital terrain model

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