SURVEYING
LIKE NEVER BEFORE

www.3Dsurvey.si

Mapping and Aerial Image Processing Software for Land Surveying Specialists
3Dsurvey | ECOSYSTEM

3Dsurvey Pilot  >  3Dsurvey  >  3Dsurvey Viewer
3Dsurvey software

Mapping and Aerial Image Processing Software
Any drone, any camera | Survey-grade accuracy | Surveyors for surveyors
3Dsurvey is developed based on 300+ land surveying projects. Tailored to serve specific surveyors’ needs. Cut fieldwork time by up to 100 times.

Capture and recreate natural environment in digital form and survey from the office. Achieve high-resolution outputs with cm-grade accuracy.


Improved engine that utilizes both CPU and GPU for up to 15x faster image processing time. Large dataset support - 1000+ hi-res images.


Supports working with any third-party point clouds, data from LiDAR, Sonar, SLAM, terrestrial scanners. Seamless workflow for further combination with photogrammetric point clouds.
Introducing a new land surveying experience.

Take full control over your workflow and achieve cm-grade accuracy leading to high-performance results.
FUNCTIONALITIES

ORTHOPHOTO

- High-resolution, georeferenced orthophotos. Ideal for daily land surveying projects.
- Use orthophoto, contour lines, elevation models to create professional survey maps.
- Compatible with any GIS or CAD software.

VOLUME CALCULATION

- Calculate volumes of excavated material in seconds with cm-grade accuracy.
- Compare and calculate multiple measurements over time or on the fly.
- 3D visualization and multi layer volume/stockpile change detection.
POINT CLOUD & INTERACTIVE 3D MEASUREMENTS

- Interactively measure any detail in 2D or 3D. Slope, elevation, size, distance.
- Advanced point cloud generation. Millions of points - metric, realistic colours, spatial orientation.
- Customize results with adjustable base height and bounding box features and other objects.

MEASURING TOOLS
measure distances in 2D and 3D

AUTOMATIC CLASSIFICATION
automatically classify points

CROSS SECTIONS
create vertical cross-sections from point cloud data

CONTOUR LINES
instant creation of terrain topography

USE CASE

Area size: 1.5 Ha
Map with 3Dsurvey Pilot
Circle mission / three circles
Field time: 15 min
Number of images: 384
Processing time: 1h 30m
Project outputs:
- Point cloud (ply, las, txt,...)
- Quick PDF report
FUNCTIONALITIES

CROSS SECTIONS

- Create vertical cross-sections from point cloud data.
- Draw a definition line and calculate a single vertical cross-section or calculate multiple transverse profiles with user-defined intervals.
- One-click export to PDF or DXF.

USE CASE

2 measurements
1-month period
Project outputs:
- Georeferenced cross sections in 2D and 3D
- Detailed position on the orthophoto
- Cross section graphs

USE CASE

Orthophoto w/ 2cm resolution calculated in 3Dsuvrey
Area size: 2.5 Ha
Export orthophoto in *.kmz to Google Earth
Sharing outputs with a client

EXPORT TO ANY THIRD-PARTY SOFTWARE

- Quick export to Google Earth [kml, kmz].
- Wide range of export formats for CAD or any other third-party software compatibility [tiff, geotif, jpeg, png, pdf, ply, las, txt, xyz, koo, dxf, etc.].
- Further visualization in BIM software [dxf, obj].
CAD TOOLS

- 2D and 3D CAD drawing tools.
- DXF file import/export for any third-party software compatibility.
- Draw CAD sketches/lines and topo maps directly over textured models and/or point clouds.

USE CASE

Road length: 1.3km
Area size: 20 Ha
Number of images:
3 flights / 1250 photos
24 GCPs
80m AGL flight
Project outputs:
- Point cloud (ply, las, txt,...)
- Digital Surface Model
- Orthophoto with 2 cm resolution (jpg / tiff / kmz)
- Contour lines (dxf)
- CAD drawing (dxf)
Mission Planning Mobile App
Transform your drone into accurate surveying tool

GRID
Single/Double Grid for mapping of rectangle areas.

POLYGON
Mapping of advanced/irregular shaped areas - additional area shapes and advanced settings.

ROAD
Developed specifically for simple and effective road, rail & corridor mapping.

CIRCLE
Circular mission for object mapping - always facing your point of interest for object 3D model reconstruction.

1. Plan your mission - flight plans for different needs.
2. Automated drone flight & image acquisition.
3. Telemetry and live camera feed during the mission.
4. Simple workflow with 3Dsurvey’s processing software.
2D & 3D Project Viewing App
View, share & explore projects

BASIC FUNCTIONS

- Import finalized 3Dsurvey projects to be explored by your clients.
- Use the Viewer to import partial results for further investigation and elaboration.
- Share 3D projects with your team and stakeholders for better visualization and control.
- Perform simple digital surveying functions, extract coordinates, measure from images.
- Supports any third-party sources, point clouds and 3D models.

1. View, Share and Visualize 2D & 3D projects.
2. Empower your team and clients to work directly with highly representative 3D data.
3. Perform measurements and extract information for further exports and reporting.
Let technology take over.
Dedicate your time to what matters. Results.
WHY CHOOSE 3DSURVEY?

Take advantage of our 20+ years of land surveying experience. Enjoy local support and personal training throughout your project life-cycle with 3Dsurvey’s worldwide distribution network.

FULL SUPPORT

Call us +386 41 632 038

Email us support@3dsurvey.si

One-on-one online training

Response time < 24 hrs

Developed by surveyors for surveyors

One time purchase, lifetime value

Regular software upgrades

Free personal training