



3Dsurvey

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SURVEYING



3Dsurvey

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



LIFETIME PROFESSIONAL SURVEYING TOOL

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.

ANY DRONE, ANY CAMERA

Supports any drone & any camera/sensor. Works for aerial & terrestrial data acquisition methods. rTK- and EXIF GPS-ready for instant telemetry data import.

PROFESSIONAL TOOL FOR DAILY USE

Best price-performance digital surveying tool in the market. Combine with 3Dsurvey Pilot and 3Dsurvey Viewer to get the complete solution: Capture > Process > Analyze > View & Share.

CM-GRADE ACCURACY

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

HYBRID PROCESSING ENGINE

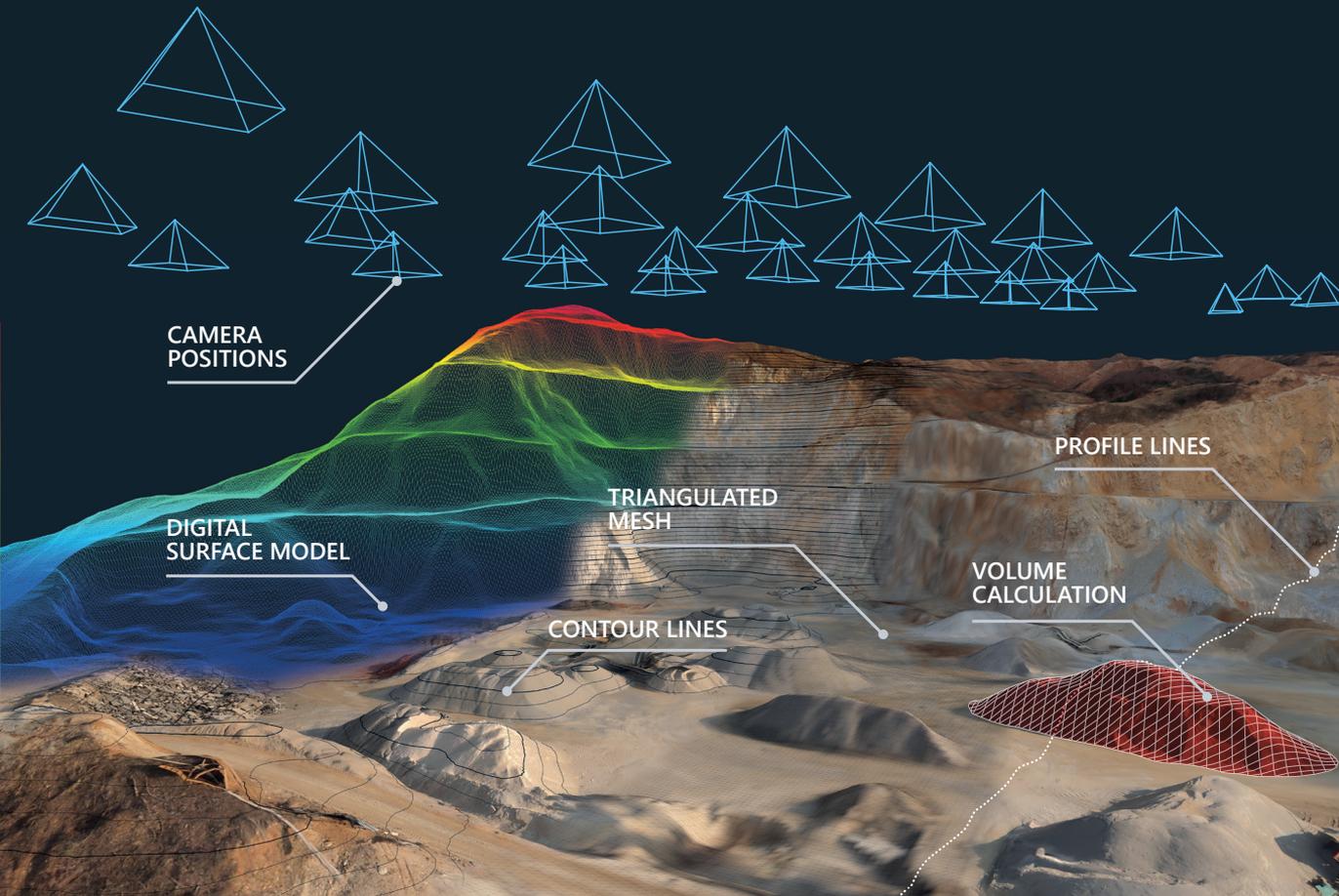
Improved engine that utilizes both CPU and GPU for up to 15x faster image processing time. Large dataset support - 1000+ hi-res images.

COMPATIBLE WITH THIRD-PARTY SOURCES

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



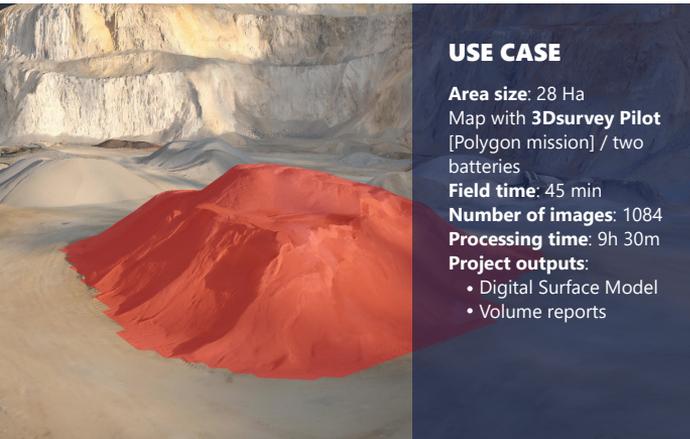
USE CASE

Area size: 10 Ha
Map with **3Dsury Pilot** [Polygon mission] / single battery
Field time: 15 min
Number of images: 430
Processing time: 2h 30m
Project outputs:

- Ortophoto with 2 cm resolution
- Export files: jpg / tiff / kmz

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.



USE CASE

Area size: 28 Ha
Map with **3Dsury Pilot** [Polygon mission] / two batteries
Field time: 45 min
Number of images: 1084
Processing time: 9h 30m
Project outputs:

- Digital Surface Model
- Volume reports

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

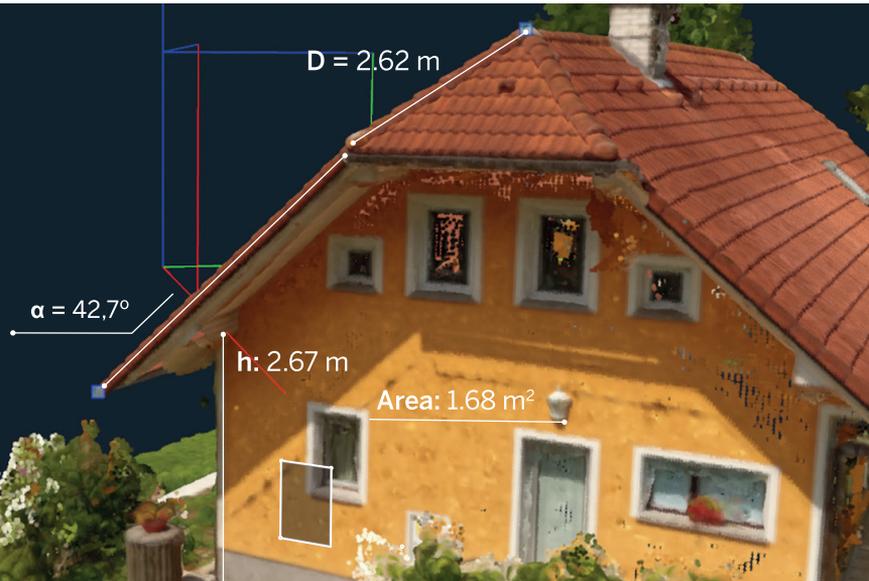
Field time: 15 min

Number of images: 384

Processing time: 1h 30m

Project outputs:

- Point cloud (ply, las, txt,...)
- Quick PDF report



FUNCTIONALITIES



CROSS SECTIONS

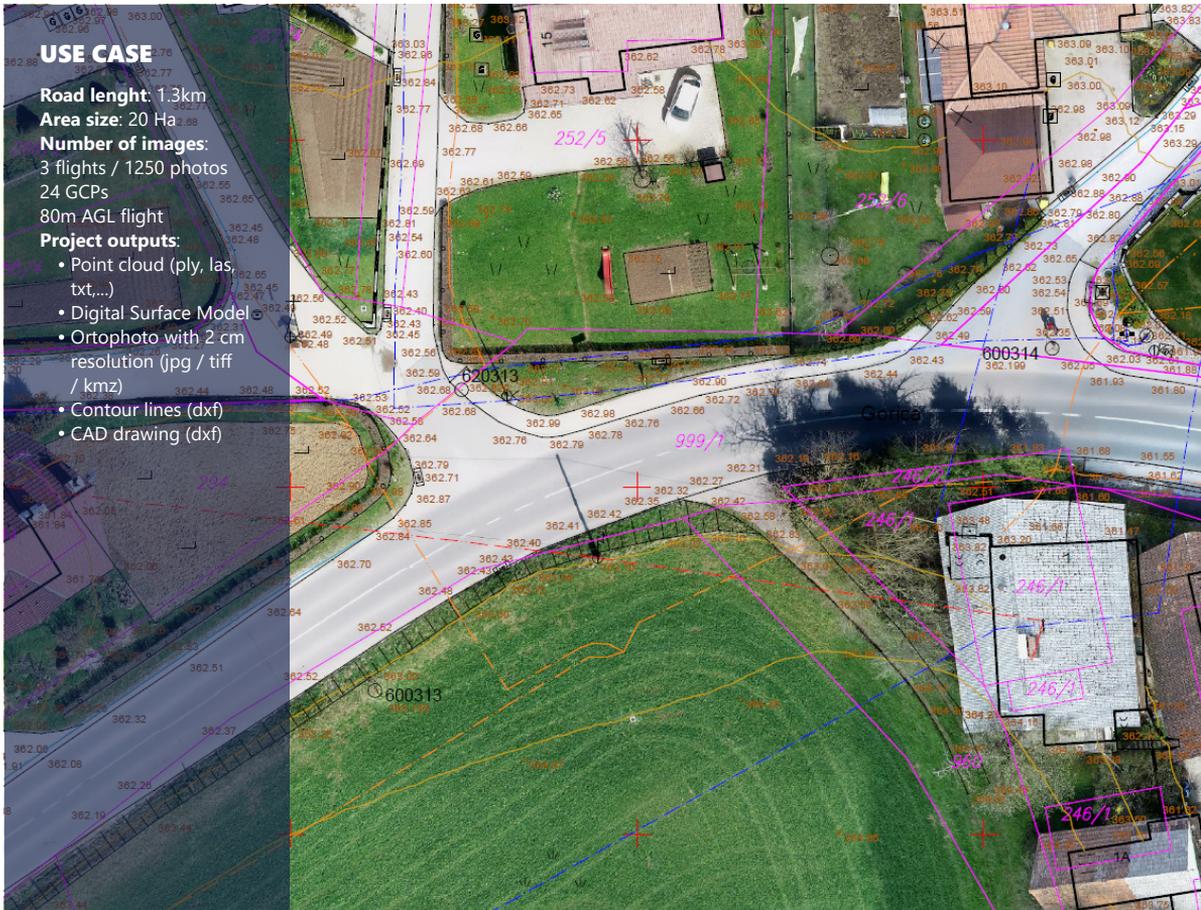
- › Create vertical cross-sections from point cloud data.
- › Draw a definition line and calculate a single vertical cross-section or calculate multiple transverse profiles with user-defined intervals.
- › One-click export to PDF or DXF.

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.





PHANTOM





3Dsurvey Pilot

Mission Planning Mobile App

Transform your drone into accurate surveying tool

NEW



FREE APP

iOS

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.

FIRST
ON THE
MARKET

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.



3Dsurvey Viewer

2D & 3D Project Viewing App

View, share & explore projects

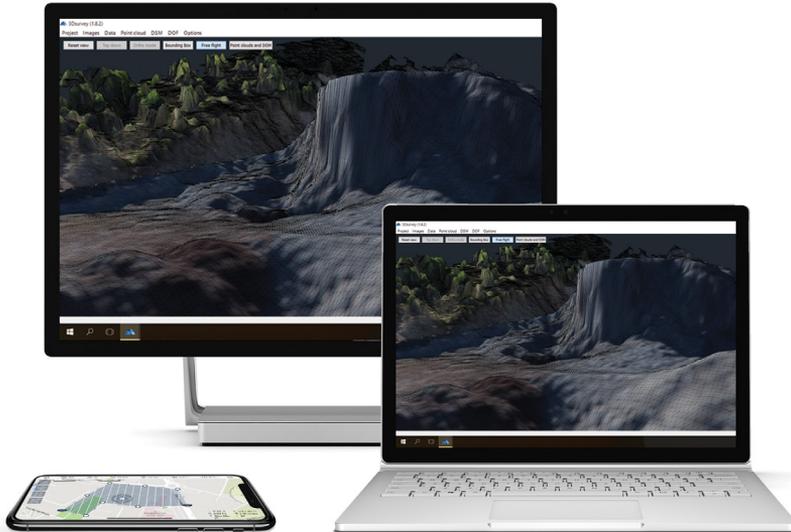
NEW

FREE
APP

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