

SURVEYING

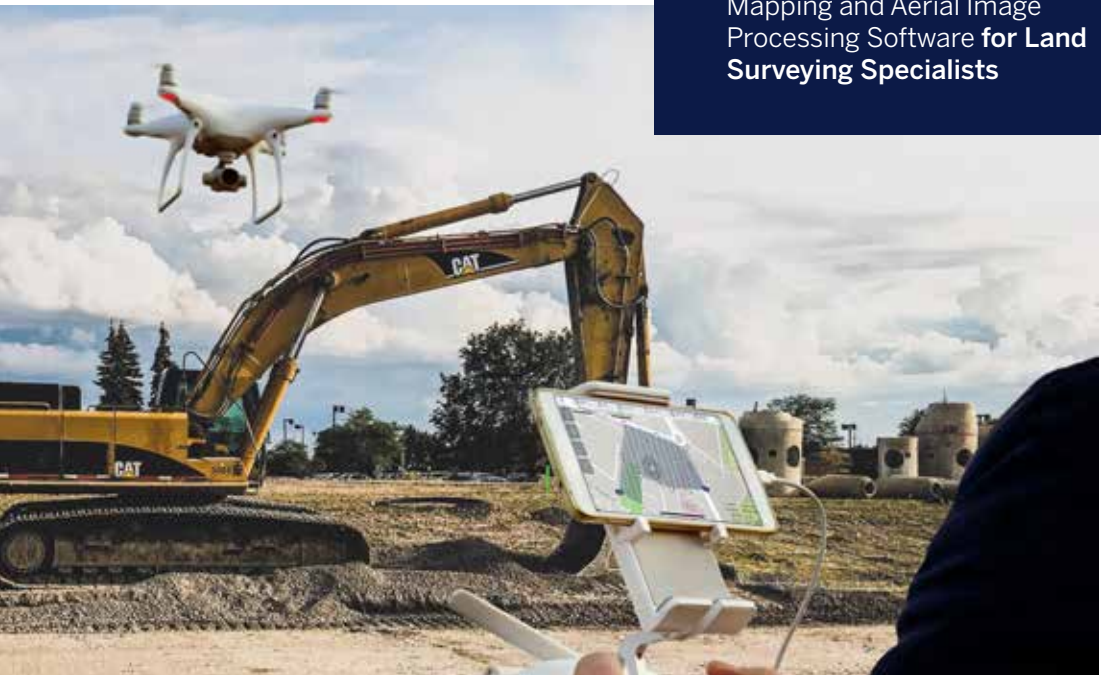


3Dsurvey

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

3Dsury 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 3Dsury Pilot and 3Dsury 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

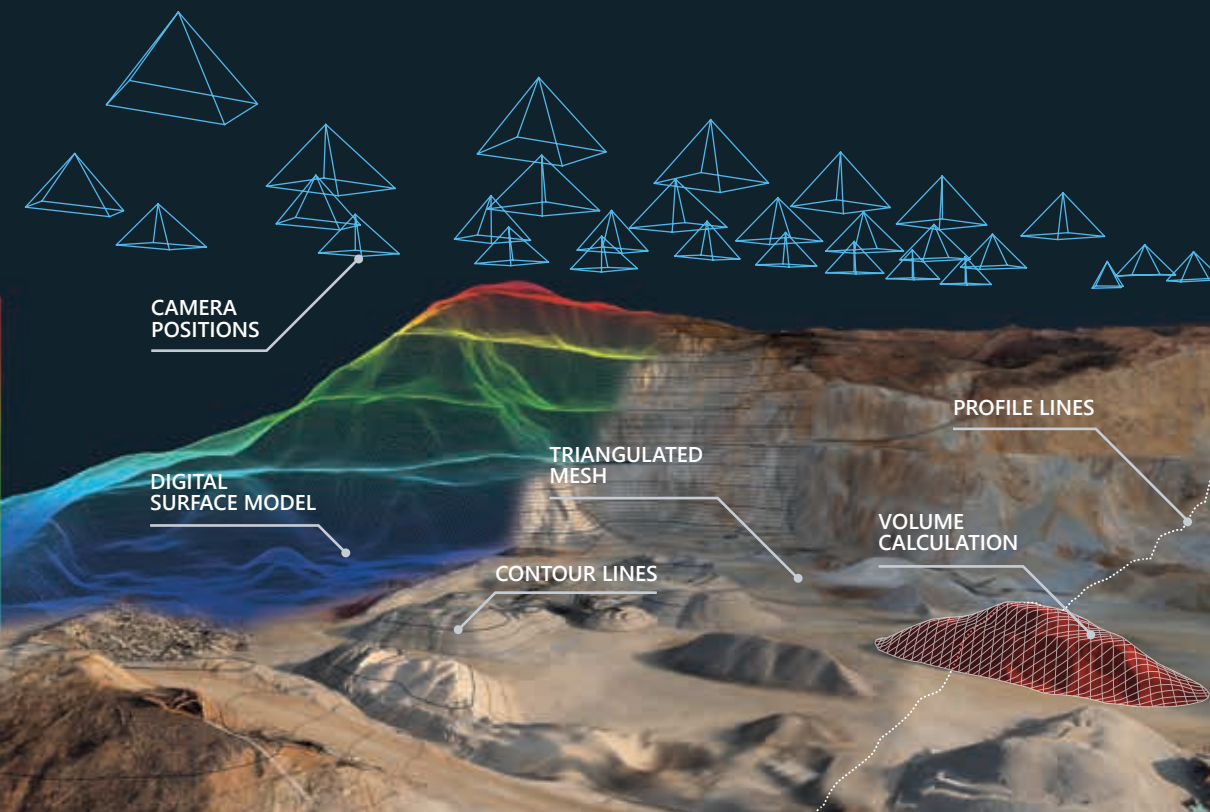
Improved engine that utilizes both CPU and GPU for up to 15x faster image processing time. Large dataset support - 1000+ hi-res images.

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 **3Dsurvey Pilot**
[Polygon mission] / single
battery
Field time: 15 min
Number of images: 430
Processing time: 2h 30m
Project outputs:

- Orthophoto 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 **3Dsurvey 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 **3Dsury Pilot**
[Circle mission] / three circles

Field time: 15 min

Number of images: 384

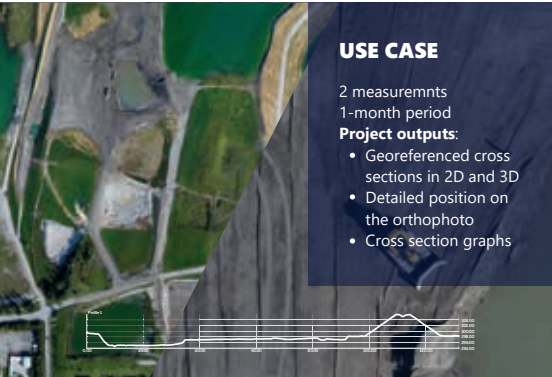
Processing time: 1h 30m

Project outputs:

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



FUNCTIONALITIES



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

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.



USE CASE

Road lenght: 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)







3Dsurvey Pilot

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

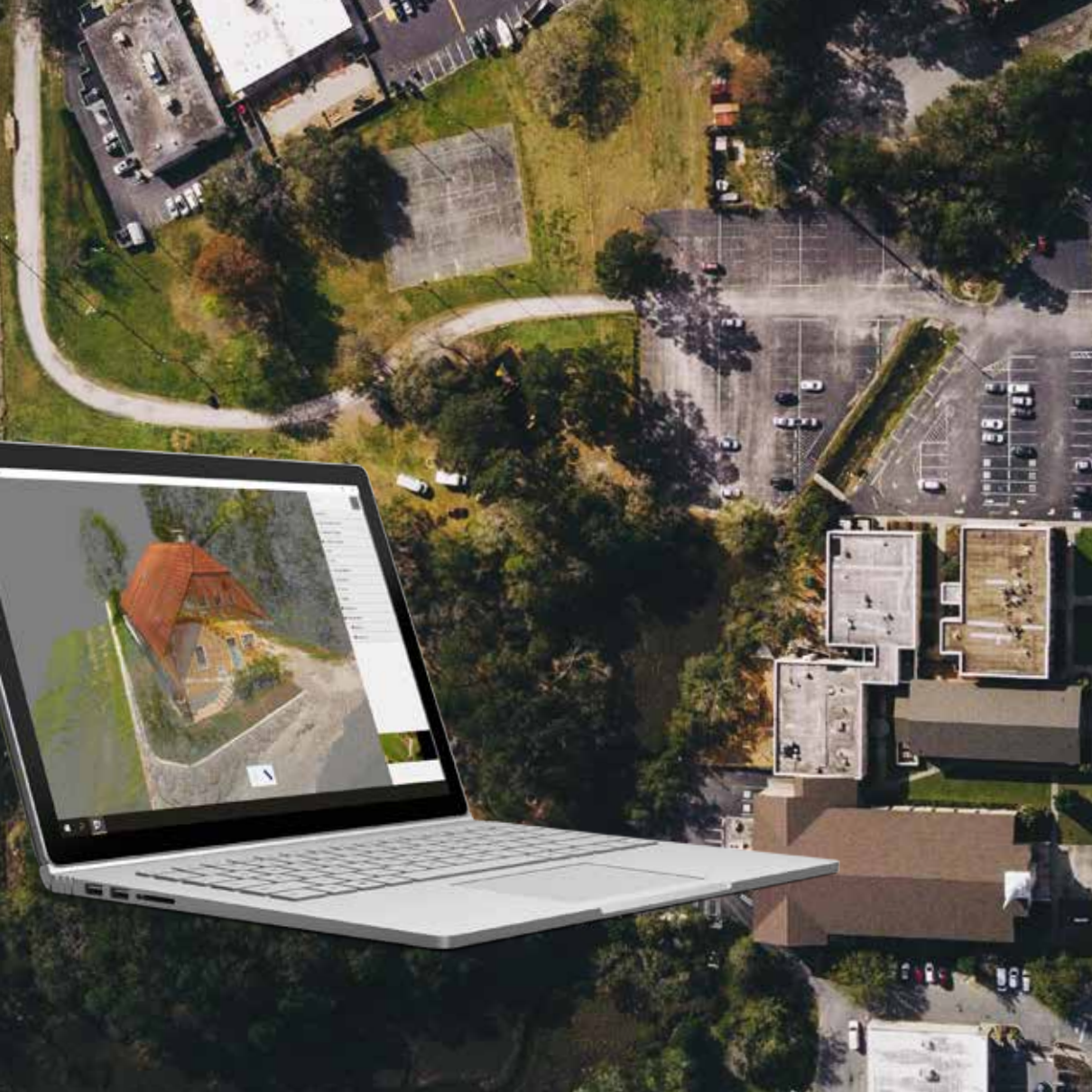
Developed specifically for simple and effective road, rail & corridor mapping.

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



DISTRIBUTORS

www.3Dsurvey.si/contact

info@3dsurvey.si
support@3dsurvey.si

HEAD OFFICE

Modri Planet d.o.o.
Vojkova 45
SI-1000 Ljubljana
+386 41 632 038

