



3Dsurvey
by surveyors for surveyors



WORK SMARTER, NOT HARDER!

MAPPING AND AERIAL IMAGE PROCESSING SOFTWARE FOR LAND SURVEYING SPECIALIST

3Dsurvey FOR PROFESSIONALS

3Dsurvey is the result of over 20 years of on-field surveying experience and more than 1000 successfully completed projects all around the globe.



We know what it's like to struggle with incompatible and lackluster tools. That's why we put our hearts and minds into creating an intuitive photogrammetry suite, designed to make your life easier and your work better.



3Dsurvey is built for success.

The powerful, proven technology is designed to help you deliver survey-grade results with uncompromised quality while being flexible enough to ensure increased productivity, faster completion of work.



3DSURVEY



3Dsurvey Pilot

Optimize on-site data gathering by transforming your drone into an automated high-precision surveying tool, eliminating the need for repeat site visits, and reducing your overall field costs.



3Dsurvey Software

Transform your imagery data into highly accurate digital maps, 3D models and interactive measurements with extreme cm-grade precision. Work smarter, faster and safer than ever before.



3Dsurvey Viewer

Share your projects with your team and clients across all industries. The 3Dsurvey Viewer app helps you take things even further in terms of convincing presentations and real-time collaboration.

**Digital image processing suite
tailor-made for land surveyors.**

“

I just wanted to spend more time with my wife and kids. Now, my software is helping surveyors all around the world do the same.

Tomaž Izak

CEO & surveyor for 23 years



By Surveyors. **FOR SURVEYORS.**

The software suite is designed to fully serve the ambitious and unique needs of your team. It is made to empower you and help you succeed. Our comprehensive digital surveying tool is extremely flexible and capable of seamlessly integrating with and complementing your existing equipment, be it aerial, terrestrial or digital.



Best-in-class photogrammetry software for surveying

All the right tools in one digital image processing suite.
Turn your computer into a surveying powerhouse
and let 3Dsurvey do the hard work for you.

GET MORE DONE, WITH LESS EFFORT.

3Dsurvey is built for success. The powerful, proven technology is designed to help you deliver survey-grade results with uncompromised quality while being flexible enough to ensure increased productivity, faster completion of work, and a work environment you'll absolutely enjoy.

COMPLETE SUITE OF SURVEYING TOOLS.

Everything is included. 3Dsurvey is a full digital surveying suite with a state-of-the-art photogrammetry processing engine, and 2 free apps to cover all your data capturing, processing and sharing needs in one package. No need for additional plugins or purchases.

FIT FOR ANY TEAM, ANY PROJECT.

Break free from any barriers, and empower your survey team with a top-tier digital image processing solution, made by surveyors for surveyors. 3Dsurvey is easily accessible to everyone, be it beginner or pro, and designed to help you scale success without any specialized training.

3Dsurvey PILOT



Simplify site planning and reduce the time you spend on the field by up to 9x



FLIGHT MISSIONS PLANING

3Dsurvey Pilot transforms your regular consumer drone into accurate surveying and mapping tool. A free addition to 3Dsurvey photogrammetry software, 3Dsurvey Pilot is the perfect tool to plan your missions and automatically capture images along with GPS data.

Post-flight processing of captured images is done easily with 3Dsurvey photogrammetry software, generating highly accurate, metric and geo-referenced results, such as dense point cloud, 3D mesh, topography map, elevation model, DSM, orthophoto. Perfect for any surveying professional.

Connect to drone

Path Angle: 0°

Front Overlap: 70%

Side Overlap: 71%

Max Speed: 5 m/s

Camera Angle: 90°

Flying height (AGL) m

110 115 120 125 130

START

7196 m 612 x 552 m

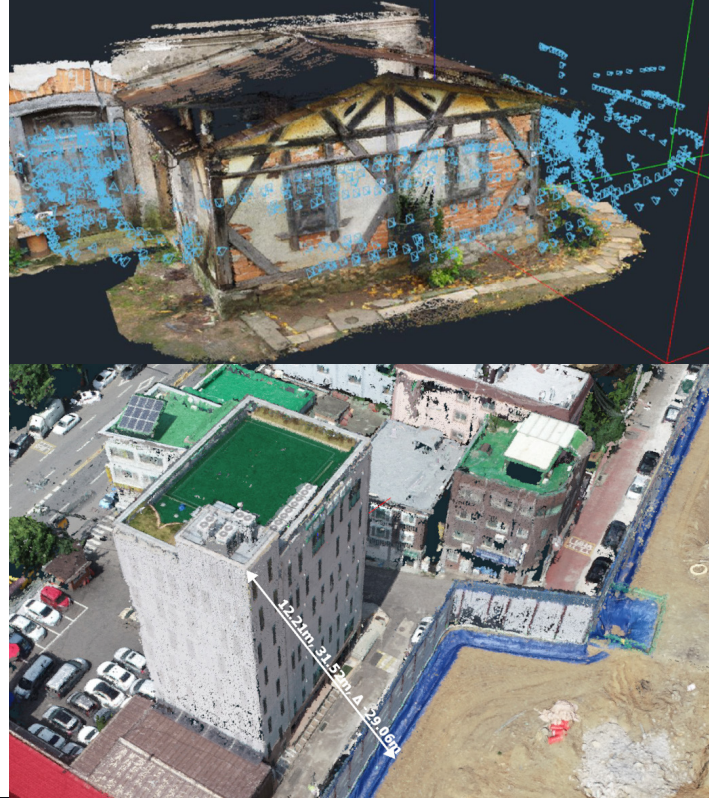
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3Dsurvey VIEWER



Share your projects with your team
and clients across all industries



The 3Dsurvey Viewer app helps you take things even further in terms of convincing presentations and real-time collaboration.

The interactive digital environment empowers you to easily explore and visualize your data, along with performing simple tasks, measurements and on-the-fly calculations.

The app is fully compatible with any third-party sources, point clouds and 3D models, so just download it and confidently share your great work with your colleagues and clients.

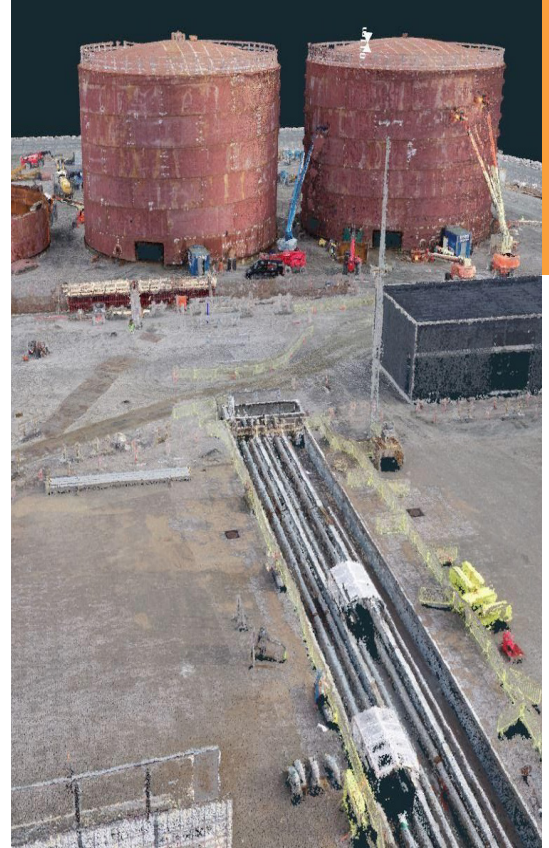


TEAMWORK IS THE ABILITY TO WORK TOGETHER TOWARD A COMMON VISION. THE ABILITY TO DIRECT INDIVIDUAL ACCOMPLISHMENTS TOWARD ORGANIZATIONAL OBJECTIVES.

3Dsurvey SURVEYING & MAPPING

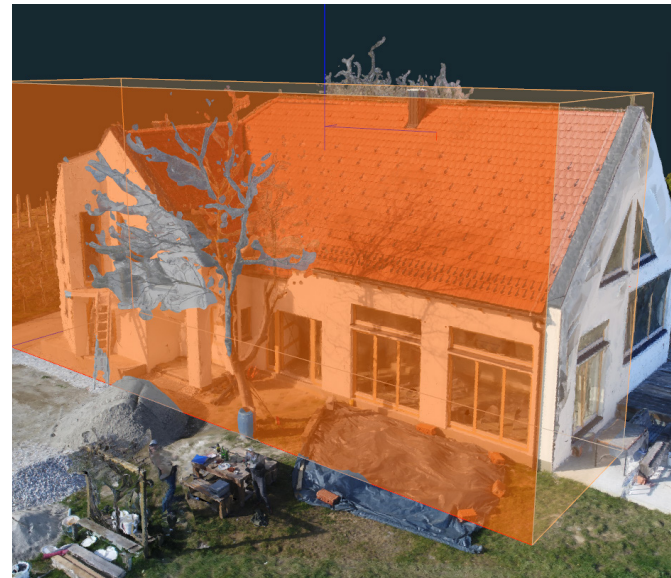
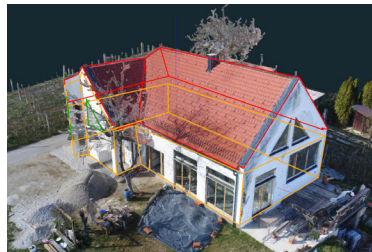
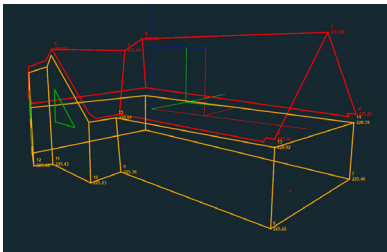
+ Faster surveys at low cost

Surveying with a drone offers enormous potential to GIS professionals. It is possible to carry out topographic surveys of the same quality as the highly accurate measurements collected by traditional methods, but in a fraction of the time. This substantially reduces the cost of a site survey and the workload of specialists in the field. With PPK geo-tagging, you also save time, as placing numerous GCPs is no longer necessary. You ultimately deliver your survey results faster and at a lower cost.





Total stations only measure individual points. One drone flight produces thousands of measurements, which can be represented in different formats: orthomosaic, point cloud, DTM, DSM, contour lines, ...



**INTEGRATED
CAD TOOLS**



**SUPPORT FOR
DIFFERENT DATA**



**TRADITIONAL
AND TRUE
ORTOPHOTO**

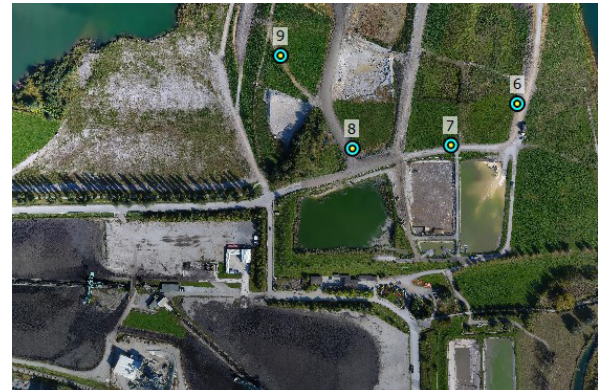
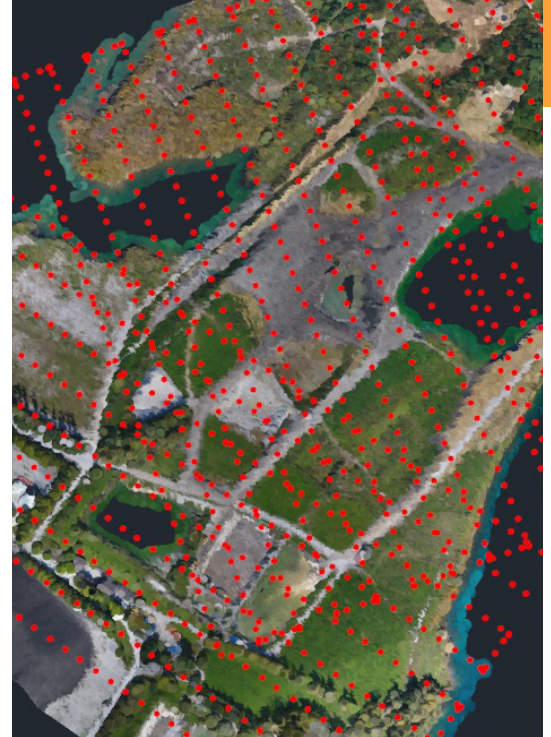


**BETTER QUALITY
POINT CLOUD AS
COMPETITION**

3Dsurvey MINING

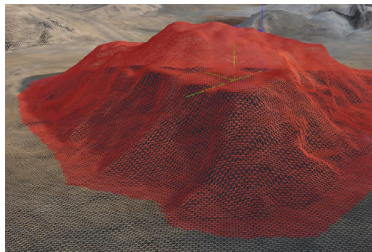
+ Highly accurate measurements

Professionals who adapt drones into their mining operations quickly realize the significant added value they bring to their industry. Drones in mining improve the overall efficiency of large mine site and quarry management by providing accurate and comprehensive data detailing site conditions in a very short time. They also support better coordination among teams, offering dynamic oversight of all operations. Data can be safely produced by on-site workers who have minimal surveying experience at a fraction of the cost of traditional survey methods.





Capturing data with a drone is up to 10 times faster than with traditional land-based methods. Drones allow you to survey parts of the mine or quarry that are normally difficult to access with traditional surveying.



**VOLUME
CALCULATION**



**REAL TIME
SURFACE
DIFFERENCE**



**AUTOMATIC
REPORTING**



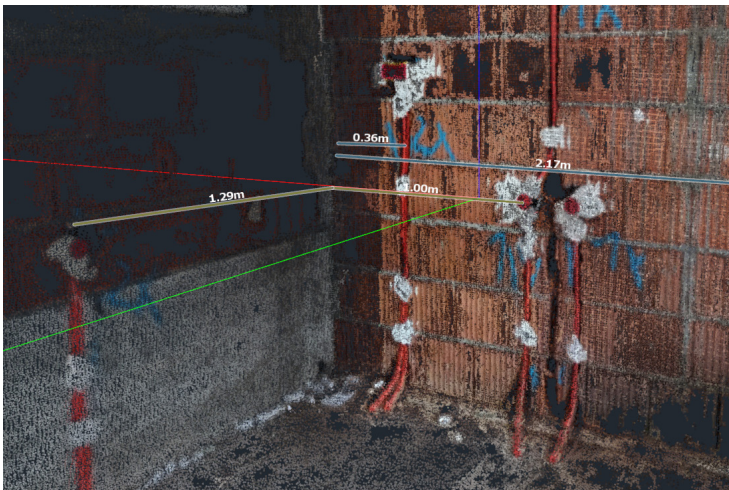
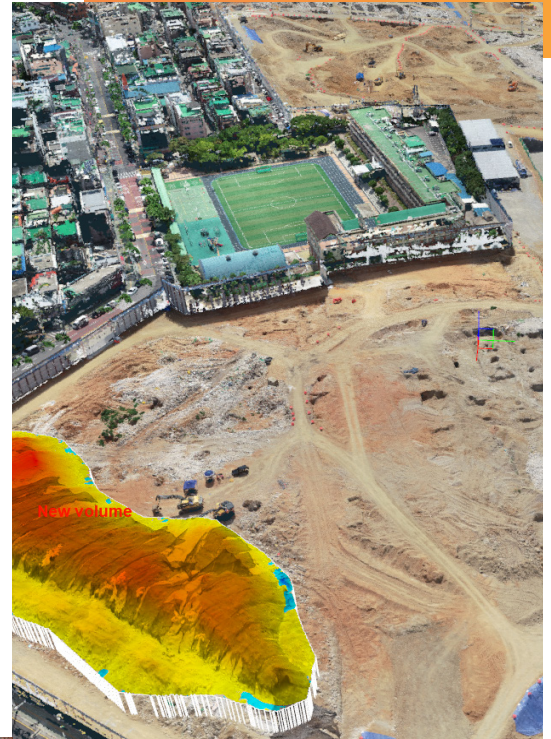
**PROFILE LINES &
CROSS SECTIONS**



3Dsurvey CONSTRUCTION

+ Accurate and comprehensive data

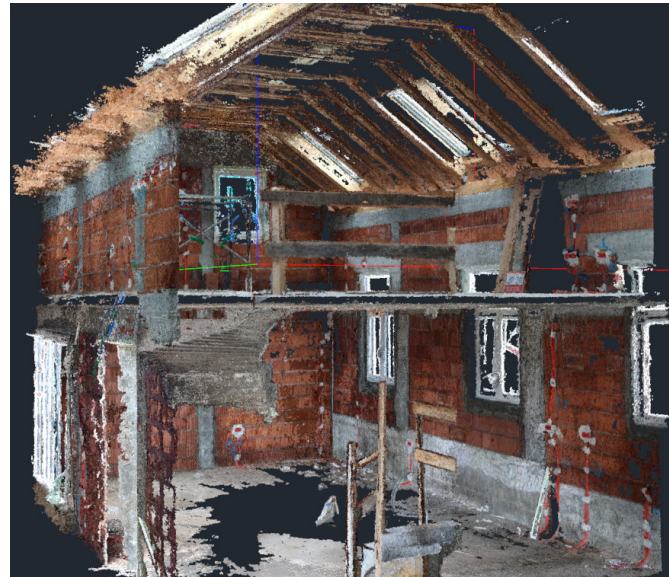
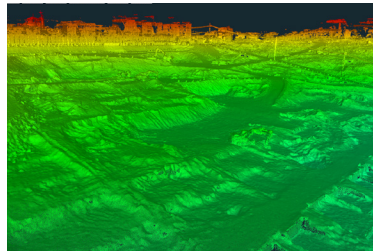
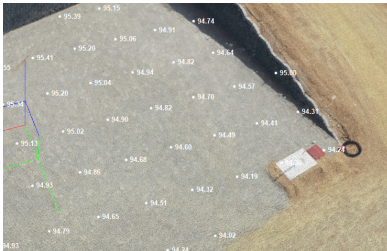
Build of engineering facilities predicts constant monitoring of construction location. Surveyors job is to establish permanent, well stabilised control points on objects of construction, its foundations, terrain and other buildings in vicinity. With high accuracy, measures their temporal spatial position. To abide natural movements, monitoring needs to be observed before, during and well after construction. Coordinate displacements of observed points are computed, and statistically processed, to establish objects stability and detect plausible movements.



Generate a fully geo-referenced, spatially orientated, and complete overview of your site configuration, entirely under your control.



By having somebody on site flying the drone and capturing images, you are able to see the progress of projects directly on your computer thru 3Dsurvey viewer, to evaluate it and discuss it with site managers as if you were on site.



**MULTIPLE
PROJECT SUPPORT
IN SINGLE VIEW**



**FLY PATH
RECORDING**



**INTEGRATED
MEASURING TOOLS**

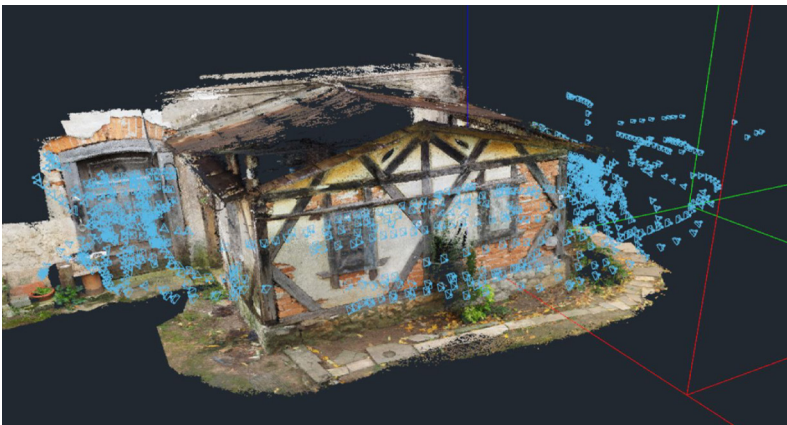


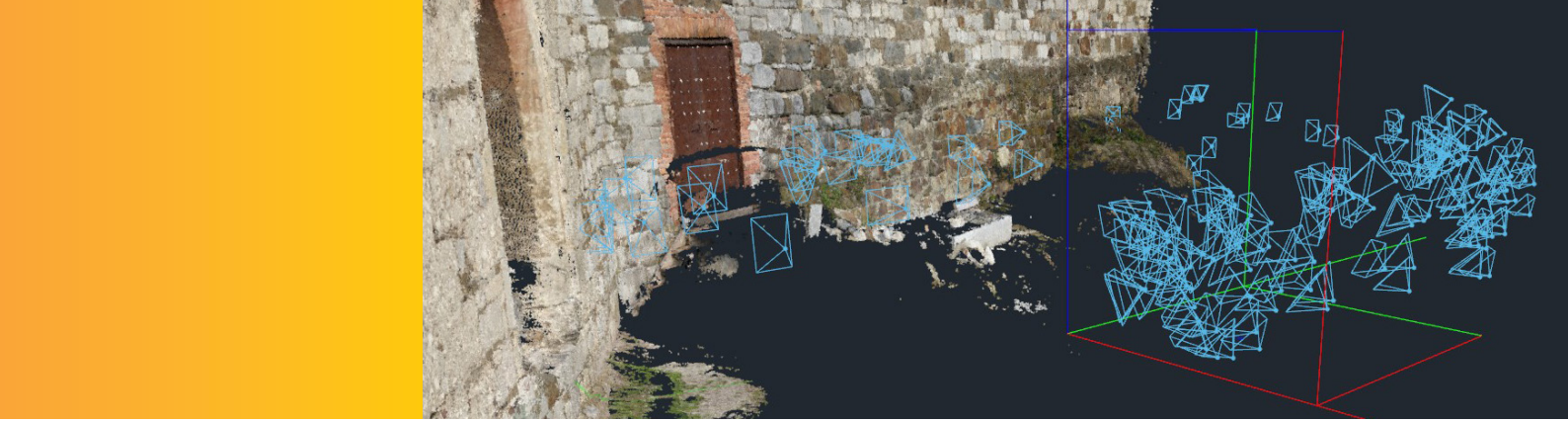
**AUTOMATIC
CLASSIFICATION**

3Dsurvey DOCUMENTING

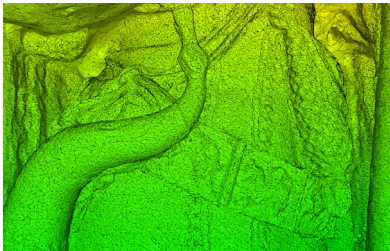
+ From past for the future

Archaeological conservationists play an important role in the monument protection service. Modern heritage protection encompasses more than simply the protection of buildings and objects. By considering the spatial totalities and values of the cultural environment, it brings together the expertise of the fundamental disciplines of archaeology, architecture, ethnology, landscape architecture, urban history, and the specialist knowledge and theoretical approaches of conservation, restoration and preventive archaeology.





With 3Dsurvey software you are able to produce the final report that we used for reconstruction 10x faster. Achieving the same results with traditional surveying equipment would be impossible.



**TEXTURED 3D
MODEL**



**FREE VIEWER
OPTION**



**3D MEASURING
TOOLS**



**WIDE RANGE OF
IMPORT/EXPORT
OPTIONS**

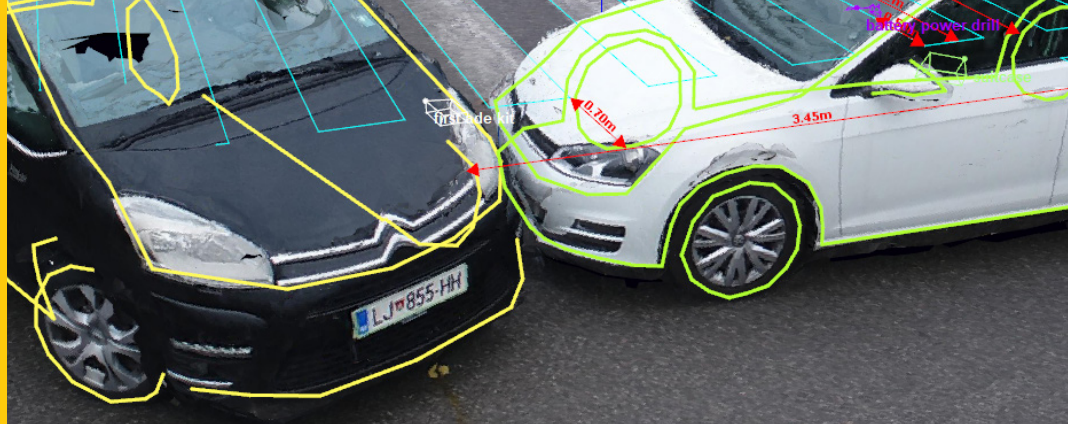
3Dsurvey PUBLIC SAFETY

+ The forensic fields

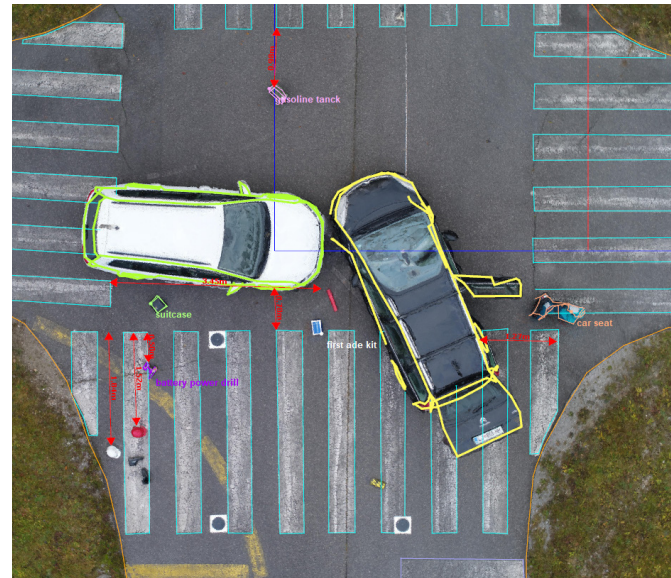
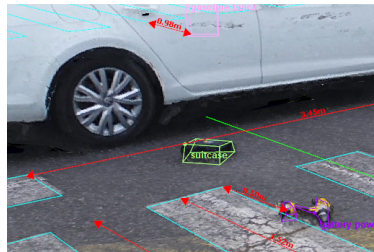
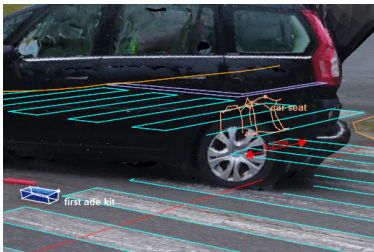
The benefits that drones can enable for public safety officials are as numerous as they are powerful, with the potential to do everything from gather info about a fire to find a missing person quicker to ensure officers are not putting themselves in harm's way. There are essentially two different paths for automation in this industry; one is on the flight side, the other is on the data side. On the flight side, there are numerous apps that can automate flight, but getting the data where it needs to go is a manual process. Automating this process is happening, but the next step is AI.



With our software you can produce CAD sketches out of photogrammetry data, which you can use with any other CAD software.



Our comprehensive digital tool is extremely flexible and capable of seamlessly integrating with and complementing your existing equipment, be it aerial, terrestrial or digital.



**CAD TOOLS FOR
QUICK SKETCH
DRAWING**



**SHARABLE FILE
FORMATS**



**EXPORT
SKETCH AS PDF**

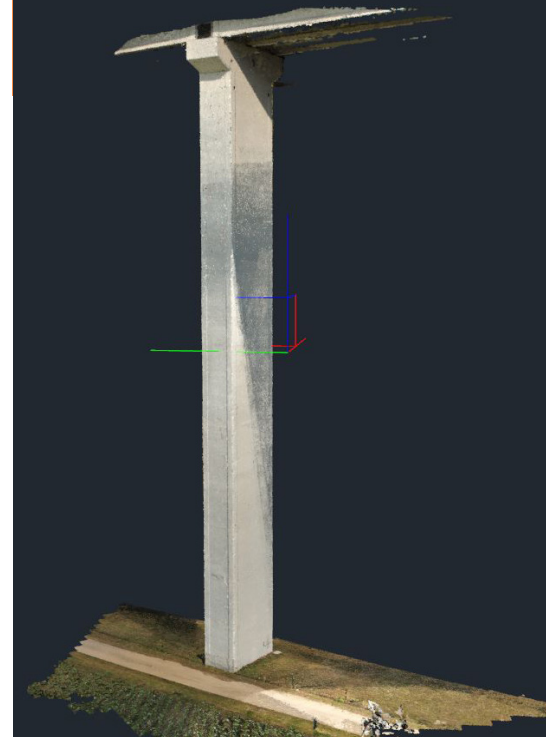
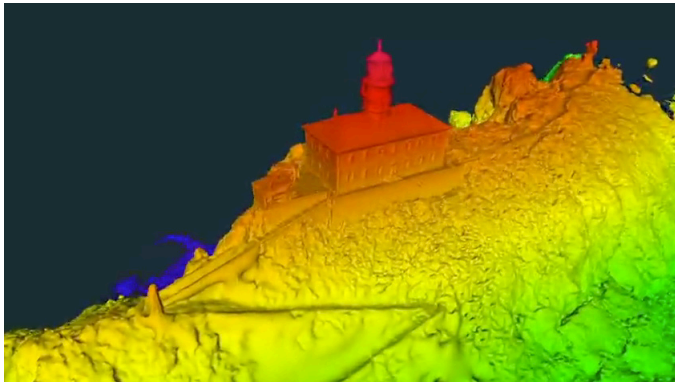


**MEASURING
TOOLS**

3Dsurvey INSPECTION

+ More efficient & safe way

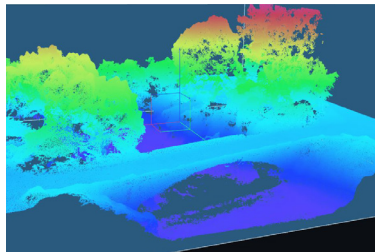
Being able to monitor and inspect hard-to-reach places or areas in the middle of machinery without entering them obviously reduces workers' exposure to accidents. Add to this that safety on a construction site is also about securing the work area as accessible only to qualified personnel. So drone imagery can help to locate a breach in the perimeter of a site more quickly, preventing civilian entry and potential accidents.



Drone data is so versatile, it can be used throughout the entire construction lifecycle, from feasibility and tendering to delivery and maintenance.



Instead of climbing electric poles, using ropes to inspect features of a facility, or working along busy highways, workers can fly a drone and inspect images without putting themselves at risk.



**NADIR AND SIDE
IMAGES SUPPORT**



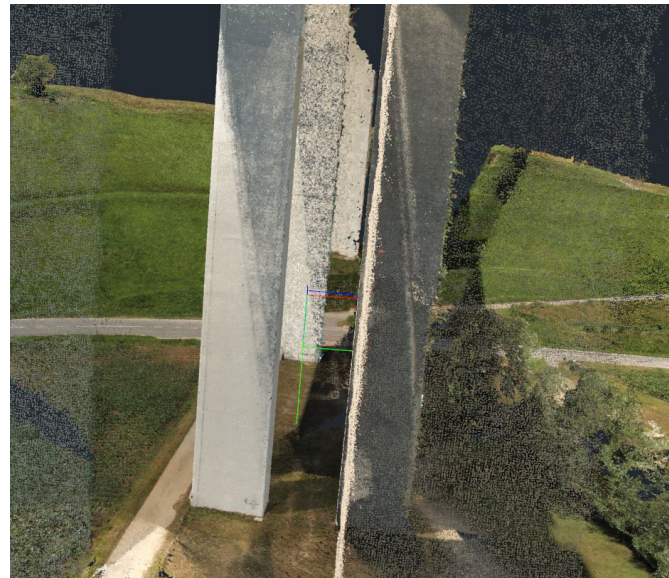
**CAD TOOLS FOR
QUICK SKETCH
DRAWING**



**CUSTOM PLANE
ORTHOPHOTO**



**MULTIPLE DATA
FILE FORMAT IN A
SINGLE 3D VIEW**





3Dsurvey

FUNCTIONALITIES

AUTOMATIC POINT CLOUD CLASSIFICATION

Leverage our **industry-leading classification engine** with best-in-class point cloud customization tools enabling you fast, user-friendly and simple data classification.

TRADITIONAL AND TRUE ORTHOPHOTO

Calculate high-resolution digital orthophotos with cm-grade precision in perfect geo-referenced detail for further land surveying and mapping exploration.

CROSS SECTION & PROFILE LINES

Draw a definition line and calculate single vertical cross-sections or multiple transverse profiles with user-defined intervals from your point cloud data.

INTEGRATED CAD TOOL ENGINE

The integrated CAD environment enables you draw on pointcloud or mesh and connect a survey map in a single software. No need for additional modules!

DIGITAL SURFACE & 3D MESH MODELS

Recreate reality in photorealistic digital form. Generate a fully geo-referenced, spatially orientated, and complete overview of your site configuration.

VOLUME CALCULATION

Explore volumetric calculations with great speed and accuracy. Compare multiple measurements, visualize in realistic 3D detail, detect changes on the fly or over time.

CONTOUR LINES

Instantly create topography maps, and freely explore terrain elevation data in 2D or 3D by leveraging 3Dsurvey's automated contour lines calculation.

3D POINT CLOUD GENERATOR

Generate accurate high definition 3D models and extract survey grade results detailed and accurate point cloud. 3Dsurvey point cloud gives you best results on the market.



All the right tools in one digital image processing suite. Turn your computer into a surveying powerhouse and let 3Dsurvey do the hard work for you.

3D MEASUREMENTS

No matter if you are measuring 2D distance, 3D distance, delta height, 2D area, 3D mesh area, 3Dsurvey supports you with all needed functions and information.

IMPORT ANY SURVEY DATA

No limitations with the number of point clouds, meshes, contour lines or orthophotos. Import them all in a single window and inspect the difference between two flights!

COORDINATE SYSTEM AND GEOID SYSTEM

If you would like to work with RTK drones and achieve centimeter grade accurate results with no additional GCP points, 3Dsurvey is ready for your needs.

DELAUNAY TRIANGULATION WITH BREAK LINES

Import 3D points from GNSS instrument and generate surface in no time! Compare GNSS measurements with photogrammetry results in a single software!



3Dsurvey

WORDS FROM USERS

Experience an improved work environment - on all levels.

3Dsurvey comprehensive digital surveying tool is extremely flexible and capable of seamlessly integrating with and complementing your existing equipment, be it aerial, terrestrial or digital. 3Dsurvey is entirely import/export friendly and supports working with any third-party point cloud data, from CAD, and LIDAR, all the way to sonar.

You are absolutely free to combine, process and play around with virtually any type of point cloud data in a high-detail-high-accuracy user-friendly digital environment.

AMAZING SUPPORT

We would like to thank your tech support team for the great help. We have been able to implement a lot of new things thanks to you. With the 3D survey program, everything has become much easier: image acquisition with the drone, creation of site plans, precise volume calculations, creation of profiles. Great product at a reasonable price. Absolutely recommended - nice that there is something like this and keep it up!

CEMIL TALAY

TOPO-CAD, Ind. Vermessung GOSLAR, Germany

3Dsurvey
A BREAKTHROUGH
IN THE FIELD OF
IMAGE PROCESSING





EFFECTIVE WORK

We've are extremely pleased with its performance. It enables quality computations and 3D renderings of spatial data, but most importantly, we can always rely on responsive customer support.

MATJAŽ HORVAT

Ržišnik Perc d.o.o.
Slovenia

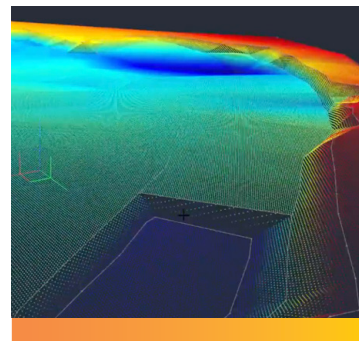


PROFESSIONAL SUPPORT

We have been using it for aerial and terrestrial photogrammetry jobs. It is great and powerful product, characterized by its simplicity to use, efficient processing algorithms and great customer support.

VLADO CETL

Faculty of Geodesy,
University of Zagreb



TIME EFFICIENT

Our mapping efficiency has moved off the charts and cut our operating expenses way down. Integrating our Drone surveys and 3Dsurvey processing has helped us keep pace with our demanding workload.

JEREMY DALMACIO

D2 Surveying LLC
United States



3Dsurvey
A GAME CHANGER
FOR YOUR COMPANY



3Dsurvey

INPUT/OUTPUT

INPUT

aerial images

images taken by any hand camera, multiple cameras support in single project, taken by any drone or any type of headshots

results from total stations (3D points)

GPS/GNSS points

photogrammetry point cloud

LIDAR/airborne LIDAR point cloud

DXF data

XML surface data from AutoCAD

orthophoto maps from 3rd part softwares

underwater images

predefined camera parameters option import

telemetry data import and editor

camera offset support

ground control points

GCP observations

region geoid data

bathymetry sonar cloud

OUTPUT

orthophoto (Tiff, JPG, PNG, KMZ...)

textured 3D model (*.obj,...)

point cloud (ply, e57, LAS,...)

regular grid mesh

irregular grid mesh

contour lines (dxf, pdf,...)

CAD drawings (dxf)

selected points (dxf, txt, xyz,...)

quick sketches (pdf, jpg, png,...)

volume reports (doc, pdf,...)

camera parameters

undistorted images

digital surface model (obj, xml,...)

survey maps (dxf, pdf, jpg,...)

3Dsurvey

SYSTEM REQUIREMENTS

Professional

Windows 10; 64 bit

Intel® Core™ i9-9900K Processor
/ Intel® Core™ i9-9980XE Extreme
Edition Processor

64 - 128 GB RAM

nVidia RTX 2080 or better

SSD 512 GB (M.2) + HDD 1 TB

Recommended

Windows 10; 64 bit

Intel® Core™ i7-9700K Processor

16 - 32 GB RAM

nVidia RTX 2070 or better

SSD 256 GB + HDD 1 TB

Minimum

Windows 7, 8, 10; 64 bit

Intel i5 / i7

8 GB RAM

nVidia GTX 1050 or better

SSD 128 GB + HDD 500 GB



3Dsurvey
by surveyors for surveyors

By Surveyors, for Surveyors.

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3Dsurvey

#worksmanernothonder