

UAS Mapping Solutions

Orbit UAS Mapping Solutions

View, Check, Combine, Measure, Extract, Profile, Volume, Contour, Stereo

Beyond PointCloud Generation. Advanced Feature Extraction Software for UAS mapping.

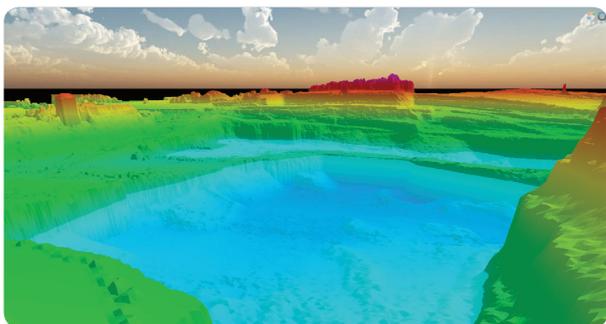
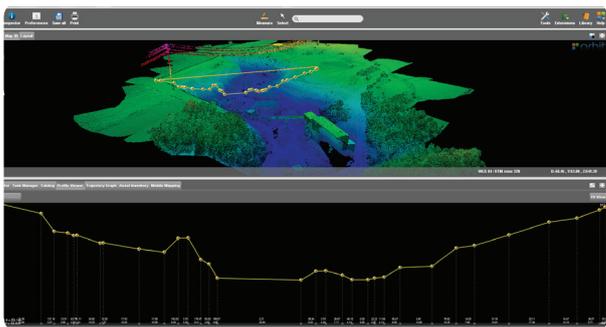
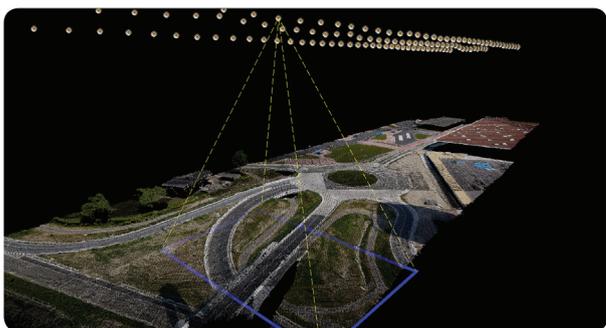
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Professional Mapping with any UAS

Introducing a professional level of UAS Mapping

Orbit GT's UAS Mapping solution is an impressive product for all professional UAV systems engaged in mapping. Based on our years of experience in high precision UAS mapping, this software covers the complete UAS workflow for advanced mapping and feature extraction using LiDAR as well as Imagery.

UAS Mapping data can generate an important insight in asset management, planning, emergency situations and ad hoc mapping requirements. It adds value to a large amount of government and public safety tasks as well as to a wide range of businesses, ranging from utilities and pipelines to precision farming.



Data © AeroScout, MaVinci, Orbit GT

import

Orbit UAS Mapping comes with an easy-to-use procedure to import processed UAS Imagery and/or LiDAR data. Bundled with a powerful GIS engine, the software allows to visualize the flight plan, source imagery, the derived orthophoto and pointcloud, and get insight in the difference between the raw and processed orientations.

view & overlay

Any supported geodata file or webbased resource can be combined with the uas data and overlaid on the orthophoto, stereomap and pointcloud. The pointcloud can be visualized in full 3D using the extensive legend parameters. Use it to make an impressive flythrough movie of the covered area. If available, mobile or terrestrial scanned data can be added to an integrated view.

measure & extract

Using the advanced measure techniques for points, lines, areas and volumes, vector data can be extracted to feed into GIS or CAD. Intelligent thinning, selection and cleaning processes can be executed to optimize or export the pointcloud.

contours, profiles, volumes

Based on the generated DEM, the volumetric analysis tool calculates volumes and compares volumes over time. Contour maps can be generated in a click. The advanced profile and cross section tools view, analyse, export and report profiles in detail.

stereo mapping

A full stereo production unit is part of the UAS Mapping software. If a stereo coverage is available, all GIS tools are present to map in stereo and overlay the created data in the 2D or 3D map canvas. Standard viewing systems are supported.