

Drone surveying - airborne precision

Precise 3D surveying and inspection for infrastructure and industry

With our state-of-the-art drone surveying, we offer you innovative solutions that make your projects more efficient, precise and future-proof. Unmanned aerial vehicles (UAVs), better known as drones, are at the heart of this service: they create high-resolution aerial images and detailed 3D models of terrain, construction sites, infrastructure and more. Thanks to special sensors and powerful cameras, we capture data in impressive quality, which can then be used for precise surveys, well thought-out planning, in-depth analyses and safe inspections.

Whether for construction companies, environmental projects or infrastructure management - our drone surveying combines speed, precision and flexibility to meet your requirements. Let's create new perspectives together and realize your visions!

**Achieve maximum precision with drones.
Fast, safe and sustainable - airborne!**



Your task - our service

- **Construction planning:** Creation of precise terrain models for construction projects.
- **Environmental monitoring:** Documentation of nature conservation areas.
- **Infrastructure projects:** Inspection of bridges, roads, power lines or industrial plants.
- **Disaster management:** Rapid mapping of damaged areas after natural disasters.
- **Urban planning:** Recording of development areas and 3D city models.
- **Mining:** Volume calculation of mining areas and deposits.
- **Application scenarios:** Indoor and outdoor

Your advantages

- **Time savings:** Drones survey large areas in hours instead of days, as they fly partly autonomously and collect data quickly. This speeds up projects and decisions considerably.
- **Precision:** With high-resolution cameras and LiDAR, drones deliver precise 2D maps and 3D models in the centimeter range - ideal for planning and analysis.
- **Safety:** Drones replace personnel in dangerous or inaccessible areas, reduce risks and enable measurements to be taken in otherwise inaccessible places.
- **Versatility and flexibility:** Drones can be quickly adapted to different projects and the collected data can be processed digitally, which saves costs in the long term. Drones enable regular monitoring and documentation, allowing changes to be recognized at an early stage.
- **Synergies:** Drones complement ground-based measurements and laser scanning for maximum accuracy and overview.



UAV surveying: as-built documentation and inspection of industrial plants



UAV surveying: as-built documentation and inspection of bridges

Projects

ADM AG Hamburg and Straubing (Germany): Complete 3D measurement and as-built documentation of various soya processing plants for process engineering planning in existing plants and implementation during operation.

ArcelorMittal Bremen / Stadler Schaaf (Germany): 3D measurement and creation of a planning basis for the integration of pipelines and infrastructure in existing buildings regarding the use of hydrogen for steel production.

ArcelorMittal Gijon (Spain): 3D laser scanning and creation of detailed 3D models for plant planning and recommissioning of the steelworks.

GEBAG Duisburger Baugesellschaft (Germany): 3D monitoring and deformation analysis of a complex retaining wall in Duisburg inner harbor (The Curve).

Emschergenossenschaft und Lippeverband (Germany): 3D as-built documentation of wastewater pumping stations for the planning of conversion measures and creation of 3D BIM models to use the data as a digital twin.

RAG AG (Germany): Complete 3D surveying and CAD modelling of the shaft infrastructure and shaft head frames of the World Heritage "Zeche Zollverein Coal Mine Complex"

DMT 3D surveying: selected projects

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