



Aerial Survey Services

*"Safe, accurate, and reliable
aerial data capture and
processing"*

Survey & Mapping Services

About Us

Altitude Imaging has been providing a comprehensive commercial drone service specialising in the provision of aerial photography, video, survey and inspection solutions for a range of industries since 2012.

Based in Perth, Altitude Imaging is one of Australia's most experienced certified commercial drone operations companies with a track record of successful projects across city, urban and remote country locations.

Altitude Imaging is fully certified and insured, the company holds CASA ReOC 0669 and our pilots all hold CASA Remote Pilots Licenses.

Survey and Mapping Services

Altitude Imaging provides aerial survey, mapping and GIS services using a range of professional drones and sensors. We safely capture high quality aerial data and with a suite of post processing options we deliver valuable spatial information.

We partner with experienced and licenced surveyors and work as a seamless, integrated team to produce accurate and timely data sets.

Our reliable and proven workflows incorporating step by step quality checks and ground truthing to ensure data integrity.

We understand your requirements and tailor solutions utilising the right drone, sensor and software combination to deliver outstanding results.

Our team delivers high-resolution data sets in either unprocessed or fully processed formats with quality reports.

"We use aerial survey techniques to conduct detailed inspections of pipelines, power distribution networks and other assets to a GSD of 0.2cm."

Features and Benefits

- ✓ Altitude Imaging operates survey drones equipped with professional imaging sensors and software delivering a tailored data solution for every application.
- ✓ Cost effective and higher resolution alternative to manned aircraft or satellite imagery.
- ✓ Safest method for capturing survey data with minimal interaction with the environment or site ground activities.
- ✓ Fast deployment with the flexibility to operate in a fast moving site environment with the ability to change waypoint flight plans and data capture parameters on site.
- ✓ Perfect for operations over inaccessible areas.
- ✓ We capture survey data from a few square metres to hundreds of square kilometres.
- ✓ Track project progress.
- ✓ Survey and inspect remotely located assets including pipelines and road and rail infrastructure.
- ✓ Can be combined with our Thermal or Multispectral Services to capture thermal and NDVI survey data.

"Altitude Imaging's Survey Services offer an accurate aerial data capture and post processing service that is productive, safe and cost effective."

Applications



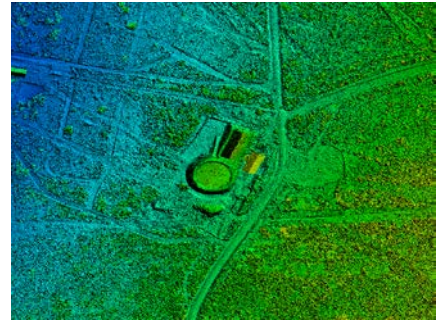
Photogrammetric Mapping

- Georeferenced Orthomosaics
- Project planning and progress assessment.
- Asset and inventory assessments.
- Site access planning.
- Environmental assessments.
- Compatible with Google maps and earth.
- Delivered in file formats to suit your GIS or CAD system.



3D Modelling Digital Surface Models

- 3D visualisation of structures and areas.
- Construction process plant and mine site modelling.
- Development impact assessments.
- Line of sight verification.
- Telecommunications tower site selection.
- Vegetation encroachment.
- 3D fly through videos



Digital Terrain and Elevation Models

- Accurate dense point clouds.
- Slope angles of terrain.
- Pit Walls.
- Cleared areas.
- Contour generation.
- Feature extraction.
- Water infiltration and drainage, overland flow.
- Project planning and progress assessment.



Visual Asset Inspection

- Inspection imagery to 0.2cm GSD
- Inspect and detect defects in pipelines.
- Detect pipeline leaks using thermal imaging and survey mapping techniques.
- Road and Rail infrastructure inspection and modelling.



Stockpile and Pit Volume Calculations

- Volumetric cut and fill analysis.
- Open pit surveys.
- Stockpile volumes.
- Excavated volumes.
- Monthly reconciliations.
- Tailings assessments.



Environmental and Coastal Mapping

- Vegetation health and classification.
- Vegetation canopy modelling,
- Land use and erosion.
- Rehabilitation assessment.
- Thermal fauna surveys.
- Coastal area and breakwater monitoring.

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Versatile Survey Drones



- We operate professional survey drones including:-
 - DJI Matrice M210
 - Microdrones Md4-1000
 - UAV Mapper
 - Phantom 4 Professional
- Multirotor and Fixed Wing systems.
- PPK and RTK positioning options on all drones.
- Our professional standard camera options include: -
- Live, constant and interactive control of all cameras.
 - 20.8 to 42MP Cameras
 - Multiple calibrated lens options.
 - 640 resolution FLIR radiometric Thermal Camera
 - NDVI Camera
- Fully stabilized precision gimbals.



"Altitude Imaging has been providing professional aerial drone services since 2012. We are Certified, Accredited and Approved to national and international standards."

Want To Know More

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