



AN **O2M** GROUP COMPANY

Aerial Imagery and Survey

THE **O2M** GROUP OF COMPANIES



02 INFLIGHT is a highly specialised aerial survey division of the 02M GROUP. Through the use of Unmanned Aerial Vehicles (UAVs), 02 INFLIGHT has the capability to capture spatially accurate aerial data and imagery for your Project.

Our UAVs have Real-Time Kinematic (RTK) positioning systems to allow for centimetre level accuracy and are equipped with a

variety of sensors to capture ortho-mosaic imagery, 3D modelling, multispectral imagery analysis and 4K HD video.

02 INFLIGHT operate under a CASA-approved commercial RPA Operators Certificate (0827).

SERVICES



Aerial Survey

- Digital Elevation Model (DEM)
- Orthomosaic Imagery
- Erosion / Accretion Monitoring
- 3D Modelling & Fly-through



Multispectral Imagery

- Habitat Classification / Mapping
- Vegetation Health Monitoring
- Algal Bloom Assessment
- Dredge Plume Monitoring



Video & Photography

- Project Status Updates
- Asset Inspection
- Project planning
- Marketing

SECTORS



Ports & Harbours

Our specialist expertise is critical in supporting Port managers to better understand and manage the marine environment in which they operate.



Energy & Resources

We support coastal and offshore energy projects through clear planning and implementation of environmental, meteorological and oceanographic assessments.



Coastal Development

We provide aerial surveys of coastal beaches and intertidal habitats for environmental impact assessment, coastal erosion monitoring and coastal development planning.

TECHNIQUES & EQUIPMENT

Multispectral Analysis

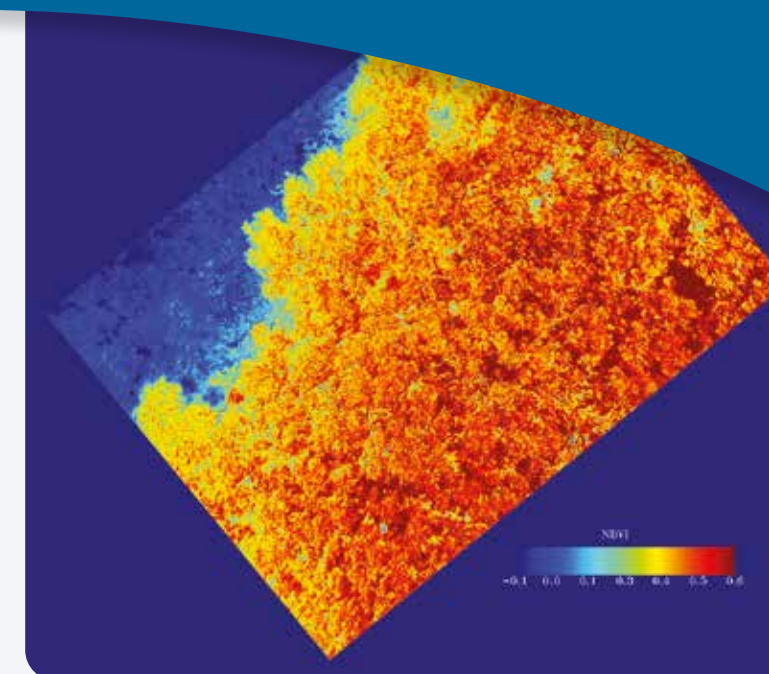
- Efficient vegetation health assessments through Normalized Different Vegetation Index (NDVI) analysis.
- Shallow water Benthic Community Habitat (BCH) identification and mapping through Multispectral analysis.
- Quantitative Plume validation and monitoring.

Equipment & Processing

- Multi rotor Multispectral UAV
- Fixed winged Multispectral UAV
- Multi rotor Real Time Kinematic (RTK) positioning UAV
- RTK Base-station and ground control points
- Geographical Information Systems (QGIS)
- Statistical Analysis R, Primer, SPSS
- Agisoft Metashape Pro Software
- Final Cut ProX editing Software

Geo Spatial Surveys

- Coastal Erosion Monitoring through accurate Digital Elevation Modeling (DEM)
- Detailed site planning
- Asset inspection
- Disturbance and rehabilitation Surveys



LOCATIONS

We have experience throughout Australia, ranging from the remote waters of Far North Queensland in the east, to the cyclone-ravaged Pilbara coastline in the west, and the unique estuarine environments in the far south of Western Australia. Internationally, our team has experience from the oil fields of the Arabian Gulf and the North Sea, throughout Southeast Asia, the Pacific Islands and in the remote Australian Ports of the Christmas & Cocos Islands.



**Enhancing delivery and fostering innovation
within our marine specialist companies**

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