

STORY DRONES

SURVEYS

INNOVATION

PHOTOGRAMMETRY



Our Capabilities

Our in-house team can now self-deliver all aspects of survey inspections, photogrammetry, 3D Point Cloud creation and media.

The data gathered from our drones can facilitate early engagement induction and site familiarisation. Through the use of animations, we enable clash detection or sequencing videos that visualise the more intricate construction operations.

IMPROVED SAFETY

Allows personnel to view and map inaccessible areas safely, easily and quickly.

TIME SAVING

Land surveys can be complete in a fraction of the time with a drone compared to on foot.

GREATER QUALITY

Between the Lidar and Photogrammetry, higher resolution and more concentrated data is produced.



Surveys

DILAPIDATION SURVEY

Using drones to complete dilapidation surveys reduces the risk to employees, whilst still delivering a comprehensive survey that documents the state of building components and systems, as well as minor wear and tear/staining.

LIDAR

Lidar drones are used for surveying land with high accuracy. The drones can send laser pulses to millions of reflection points, for the creation of high resolution maps and 3D digital surface models.

TOPOGRAPHICAL

Using photogrammetry and lidar data captured by our drones, we can map the features, elevations and boundaries of a site. It penetrates through vegetation, and uses light sensors to give a 3D image.

3D Modelling & Point Cloud

This cutting-edge technology combines RTK and advanced photogrammetry software, enabling us to produce a comprehensive collection of data points in space.

This service is particularly advantageous for asset management and BIM, allowing us to create a digital representation of any building or structure.



Aerial Photography

Our aerial photography and media services utilise the latest Unmanned Aerial Systems (UAS) drone technology, to provide an exceptional combination of HD aerial video and photography.

Our drones present an innovative and cost effective alternative to traditional workflows, allowing us to produce high quality images at a fraction of the cost.



Our Equipment & Accuracies

Emlid Reach RS2+ GNSS Receiver

- Tracks GPS/QZSS L1C/A, L2C; GLONASS L1OF, L2OF; BeiDou B1I, B2I; Galileo E1-B/C, E5b
- Fast RTK convergence
- 22 hours on 1 charge
- Operating temperature -20°C to +65°C
- Logs RINEX at update rate up to 10Hz
- 16GB of internal storage
- Precision static H: 4mm+0.5ppm V: 8mm+1ppm
- PPK H: 5 mm+0.5ppm V: 10mm+1ppm
- RTK H: 7mm+1ppm V: 14mm+1ppm

FARO ORBIS Geoslam

- 360° x 290° field of view
- Operating temperature 0° - 40° C
- 512GB internal storage
- Data capture - Point clouds with intensity and color, 360° images, trajectory
- Precision static H: 4mm+0.5ppm V: 8mm+1ppm
- PPK H: 5 mm+0.5ppm V: 10mm+1ppm
- RTK H: 7mm+1ppm V: 14mm+1ppm
- 5mm mobile scanning precision
- 2mm stationary flash scanning precision

DJI Mavic 3 Enterprise

Maximum windspeed	12m/s
Operating temperatures	-10° to 40° C
Zoom	8x
Mapping accuracy	15-20mm
Storage	128GB
Maximum flight time	45 minutes

DJI Mini Pro 3 Specs

Maximum windspeed	10.7m/s
Operating temperatures	-10° to 40° C
Zoom	4x
Mapping accuracy	15-20mm
Storage	128GB
Maximum flight time	45 minutes

DJI Zenmuse Lidar Sensor

- Detection range: 450m @50% reflectivity, 0 klx / 250m @10% reflectivity, 100 klx
- Point cloud rate: Single return: max. 240,000 pts/s/ Multiple returns: max. 1,200,000 pts/s
- System Accuracy:
Horizontal: 5 cm @ 150 m
Vertical: 4 cm @ 150 m
- Operating temperature -20° - 50° C

To see our team in
action, scan the QR
code to watch our
showreel



Enquire at:
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