

Fact sheet

Drone aerial photogrammetry

Efficient and rapid 3D digitization of site-level assets

Utilizing drones for aerial 3D photogrammetry allows for quick and efficient 3D capture of large sites – it's fast for construction timelines and rich in details, enabling enhanced visualization for elevated structures



About aerial photogrammetry

Utilizing drone-based aerial photogrammetry allows for rapid site digitization either for use as a digital twin backbone or for frequent 3D site capture to follow construction progress.

Both can be achieved in a rapid and cost-effective manner compared to ground-based capture methods.

Our capabilities and applications

Our global drone services portfolio, delivered using leading market equipment, is provided by licensed pilots with extensive experience in challenging remote and offshore locations.

Typical applications include:

- Oil and gas sites
- Wide area topography
- Offshore assets
- Terrestrial and LiDAR mobile scan integration

Use Cases

- **Digital twin:** implementing a digital twin program starts with capturing your asset in its "as-built" state.
- **Enhanced visualization:** capture elevated images of your asset for visualization purposes. Areas that are commonly excluded from ground-based capture due to lack of access, can be quickly captured with aerial

drone-based cameras. When paired with various software that has the capability to visualize 3D point cloud or mesh, the related images can be shown together for quick reference and marking.



Enhanced visualization

For more information



industry.services@intertek.com



intertek.com/uas

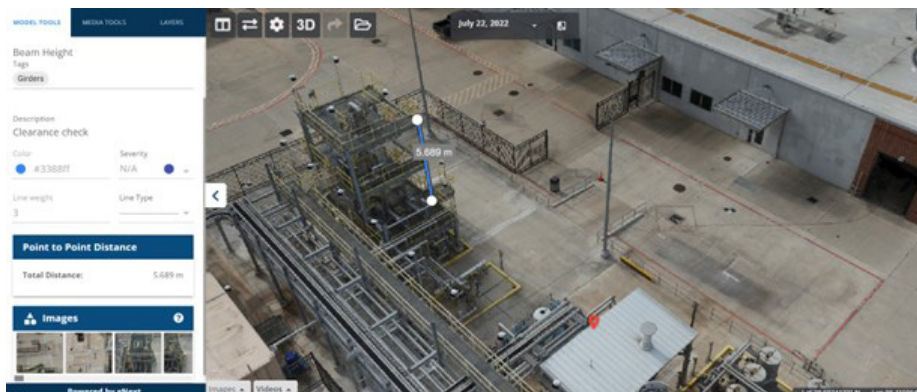
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3D point cloud or mesh



Ease of inspection



Annotation tools

- **Ease of inspection:** combine 3D point cloud models and high resolution images to provide inspectors with geo-localized images for easier marking and localizing of anomalies throughout your site
- **Simplify maintenance with annotation tools:** with a 3D digital model, images and appropriate cloud-based software during turnarounds make sharing complex and correct information across teams easier and efficient

Benefits include faster deployment, less lost time, and improved cost savings.

For more information



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Simplify maintenance