



Pioneering Excellence in **Photogrammetry** & **Aerial Survey**

**High-Accuracy Aerial Mapping,
3D Data Capture & Geospatial Intelligence**

KUWAIT-BASED | MIDDLE EAST, ASIA & AFRICA | ESTABLISHED 2004



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Accredited & Certified



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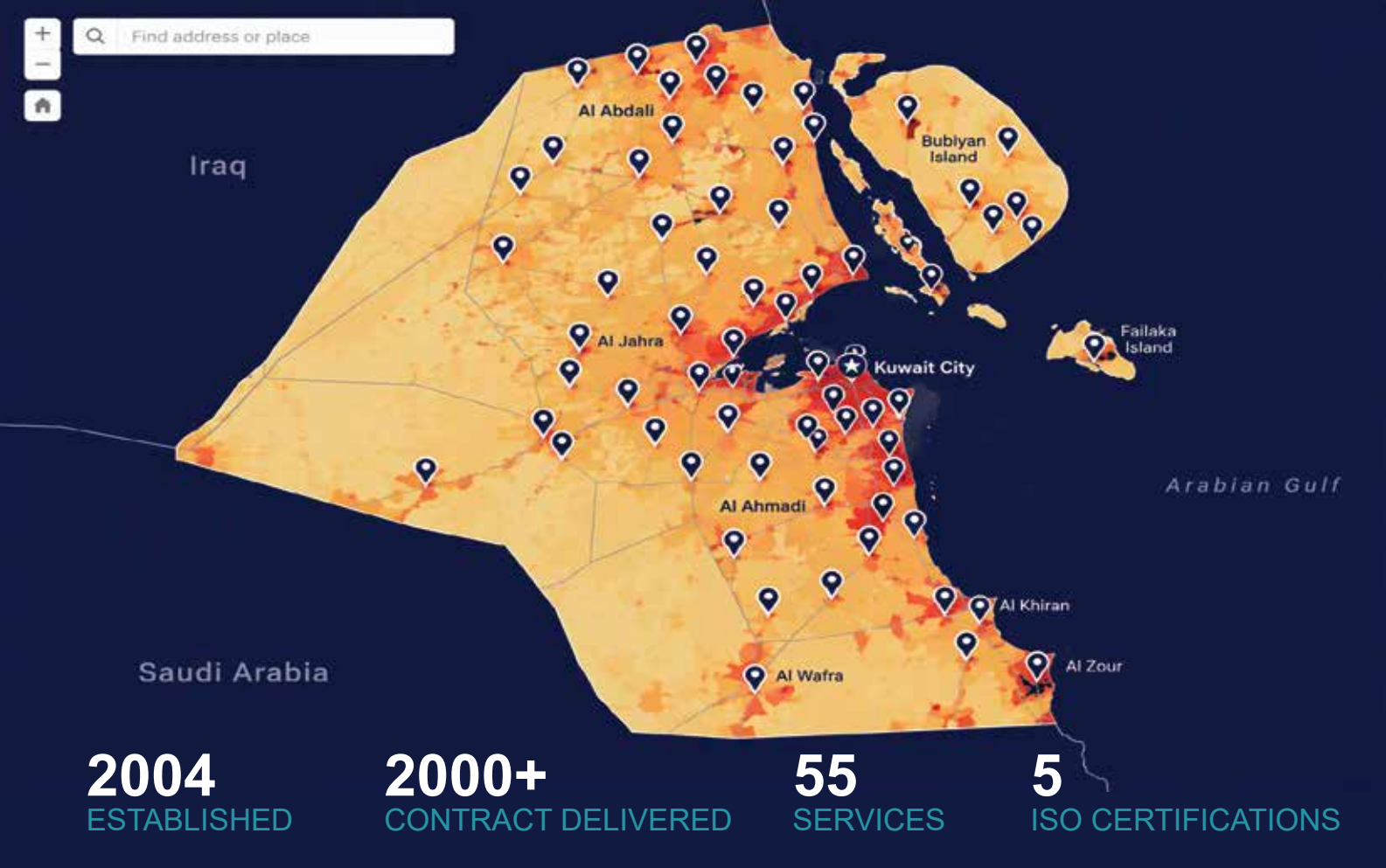
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About Us

Vision International is a Kuwait-based engineering services company established in 2004. The company delivers integrated geo-solutions across surveying, geotechnical investigation, geophysics, laboratory testing, engineering, digital platforms and specialized safety services throughout Middle East, Asia and Africa. Within Specialized Safety & Risk Services, Vision supports construction, infrastructure, defence and oil & gas operations where unexploded ordnance and explosive remnants of war may present a hazard. Services combine risk assessment, geospatial intelligence, magnetometer-based survey, target investigation, intrusive clearance, risk education, standby EOD support and documented hand-back.

Our Services Include:

- Aerial Topographic Survey
- Orthophoto Mapping
- 3D Photogrammetry
- Stockpile & Volume Survey
- Construction & Progress Survey

Our Mission

*'To deliver high-precision
geospatial intelligence through
advanced mobile mapping and
surveying technology.'*



Service Description

Overview

Photogrammetry & Aerial Survey services provide accurate, high-resolution geospatial data using UAV/drone-based aerial imagery, GNSS ground control, photogrammetric processing and 3D modelling technologies.

The service enables rapid and safe surveying of large, difficult-to-access and complex project areas while producing reliable topographic, orthophoto, elevation and 3D datasets for engineering, construction, infrastructure and industrial applications.

Scope of Work

- UAV/drone aerial image acquisition and photographic surveys
- Establishment and observation of Ground Control Points (GCPs) using high-precision GNSS
- Aerial topographic and cadastral mapping
- High-resolution orthophoto generation
- Digital Surface Model (DSM) and Digital Terrain Model (DTM) generation
- Dense point-cloud generation and classification
- 3D mesh and textured 3D model generation
- Contour generation and elevation mapping
- Stockpile and volume calculations
- Progress monitoring and as-built surveys
- Corridor, road, pipeline and infrastructure surveys
- Inspection and documentation of large or difficult-to-access areas
- GIS/CAD-ready data preparation

Benefits

- Rapid data acquisition over large areas
- High-resolution aerial mapping
- Improved survey coverage and accessibility
- Accurate 2D and 3D deliverables
- Reduced field manpower and site exposure
- Improved project planning and decision-making
- Safe surveying of difficult or hazardous locations
- Efficient progress monitoring and volume calculations

Equipment & Technology

Advanced Tools for Photogrammetry & Aerial Survey

Vision International combines advanced aerial imaging, photogrammetry, and GNSS technologies to capture precise, high-resolution geospatial data and create detailed digital representations of terrain, infrastructure, and assets.

UAV / Drone Platform DJI Matrice 4E

Aerial image acquisition and mapping



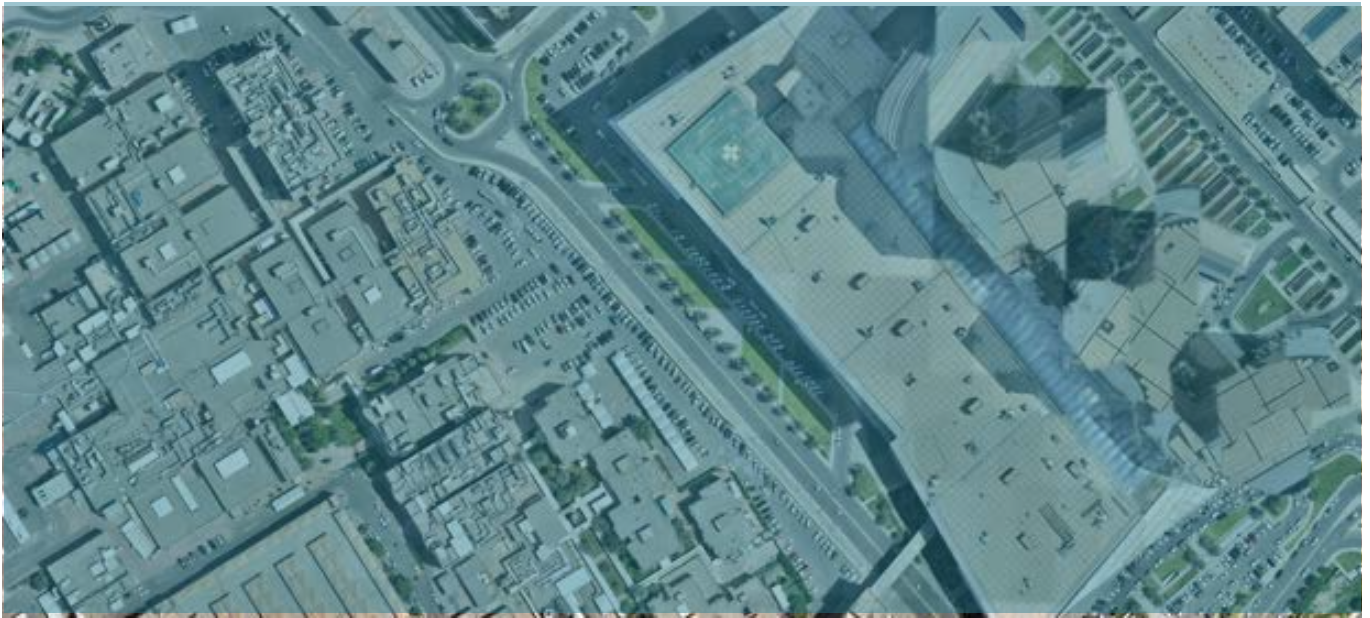
UAV Camera High-resolution RGB / Mapping Camera

Photogrammetric image capture

GNSS Receiver Trimble GNSS / RTK

Ground Control Points and survey control





GNSS Antenna

Survey-grade GNSS antenna

High-precision positioning



Processing Software

Professional Photogrammetry Software

Image processing, point clouds, orthophotos and 3D models

CAD / GIS Software

CAD & GIS Platforms

Mapping, feature extraction and final deliverables



Our Services

Photogrammetry & Aerial Survey Technology

Vision International delivers advanced photogrammetry and aerial survey solutions across the Middle East, Asia, and Africa, transforming high-resolution aerial imagery into precise, data-rich maps and 3D geospatial models.

01

UAV Photogrammetry

Captures overlapping aerial images for mapping and 3D modelling.

02

GNSS/RTK Positioning

Provides precise positioning data during aerial data capture.

03

Ground Control Points (GCPs)

Surveyed reference points used to improve mapping accuracy.

04

Dense Point-Cloud Generation

Creates detailed 3D points representing terrain, structures, and assets.

Photogrammetry & Aerial Survey Service offering

Vision International delivers advanced photogrammetry and aerial survey services across the Middle East, Asia, Africa, and marine environments, transforming complex terrain and infrastructure into precise, data-rich geospatial assets.

Service

- Aerial Topographic Survey
- Orthophoto Mapping
- 3D Photogrammetry

Service

- Stockpile & Volume Survey
- Construction & Progress Survey

Service

- Infrastructure & Corridor Survey
- Inspection & Documentation

“Transform aerial imagery into an accurate digital record of the surveyed environment.”



Typical Deliverables

Deliverables

- Orthophoto / Orthomosaic
- Digital Surface Model (DSM)
- Digital Terrain Model (DTM)

Deliverables

- Dense Point Cloud
- 3D Mesh / 3D Model
- Contour Maps

Deliverables

- Topographic Maps
- CAD drawings
- GIS datasets

Deliverables

- Stockpile and volume reports
- Survey control and accuracy reports
- High-resolution aerial photographs



SERVICE Workflow

Service Overview

The eight-stage photogrammetry and aerial survey workflow has been condensed into a clear service overview, covering the complete process from project briefing and flight planning to aerial data capture, processing, quality control, reporting, and final delivery.

1. Briefing

Understand project requirements, survey area, coordinate system, accuracy requirements and deliverables.

2. Planning

Prepare flight plans, survey coverage, flight altitude, image overlap, GCP locations and safety requirements.

3. Mobilization

Deploy UAV, GNSS equipment, survey personnel and required project documentation to site.

4. Field Operations

Conduct UAV flights and acquire high-resolution aerial imagery. Establish and observe GCPs and check points using GNSS/RTK.

5. Processing & Analysis

Process aerial imagery using photogrammetric software to generate aligned images, point clouds, DSM, DTM, orthophotos and 3D models.

6. Quality Control

Perform independent checks using Ground Control Points and Check Points. Verify positional accuracy, completeness and data quality.

7. Reporting

Prepare survey drawings, maps, models, volume calculations, photographs and technical reports.

8. Final Delivery

Submit approved digital datasets and final deliverables in the required CAD, GIS, PDF, LAS/LAZ, GeoTIFF and 3D formats.

Key Capabilities Summary

The key capabilities summary outlined

- Experienced UAV and surveying professionals
- Survey-grade GNSS/RTK Ground Control
- High-resolution aerial data acquisition
- Advanced photogrammetric processing
- 2D and 3D geospatial data production
- Large-area mapping capability
- Rapid mobilization and field deployment
- High-quality CAD/GIS deliverables
- Independent quality control and accuracy verification
- Safe surveying of difficult and inaccessible areas
- Integration with conventional land surveying and engineering workflows
- Strong understanding of Oil & Gas, infrastructure and industrial project requirements

The Company Highlights

- Experienced multidisciplinary survey team
- Advanced surveying and geospatial technology
- Professional UAV and GNSS survey capabilities
- Integrated field-to-office data processing
- Strong QA/QC procedures
- Fast mobilization for project requirements
- Experience supporting Oil & Gas, infrastructure, marine and industrial projects
- Deliverables compatible with engineering, CAD and GIS workflows

What sets us apart?



With the key personnels, specialists and geotechnical engineers, Vision International combines advanced Photogrammetry and aeral survey expertise with precision engineering to deliver accurate digital representations beyond conventional surveying methods.

Integrated geo-solutions

Survey, geophysics, geotechnical, laboratory, engineering, GIS and specialized safety capabilities support multi disciplinary delivery.

Middle East, Asia and Africa operating context

Established in Kuwait since 2004 with experience serving oil & gas, infrastructure, government and construction stakeholders.

Technology-enabled delivery

GNSS, magnetometry, GIS, CAD/BIM-compatible data and digital records support field quality and decision-making.

Controlled documentation

Structured work plans, field records, maps, clearance evidence and residual-risk communication strengthen auditability.



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