



Pioneering Excellence in 3D Laser Scanning & Reality Capture

**Precision 3D Data for Accurate Engineering,
As-Built and Digital Reality**

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



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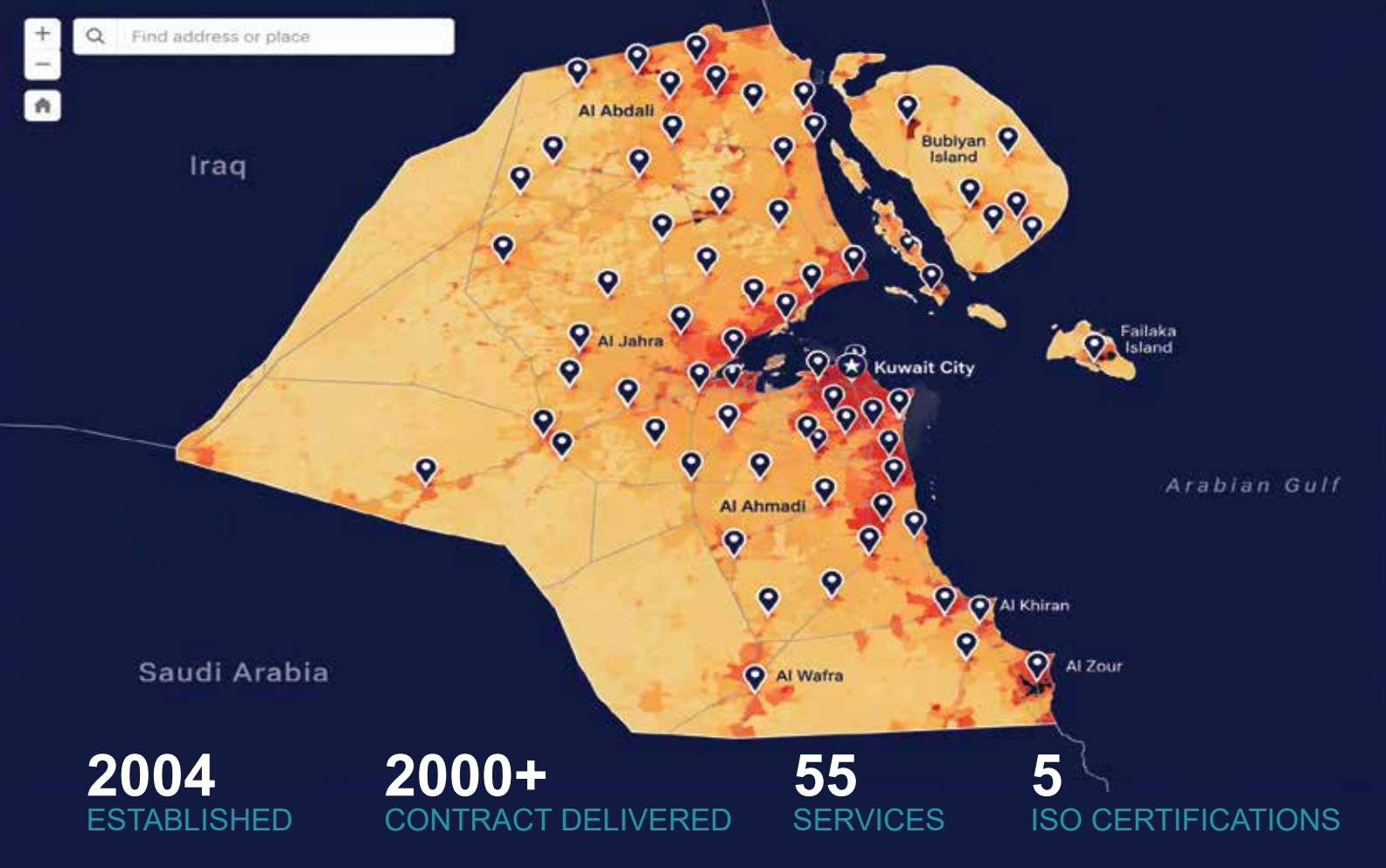
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About Us

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:

- 3D Laser Scanning
- Industrial Plant Scanning
- Oil & Gas facility Scanning
- As-Built 3D Survey
- Building & Structural Scanning

Our Mission

'To deliver exceptional spatial intelligence through precision 3D capture.'

Service Description

Overview

Vision International provides 3D Laser Scanning and Reality Capture services for industrial, infrastructure, oil & gas, construction, marine and building projects. 3D laser scanning uses advanced terrestrial laser scanners to rapidly capture millions of accurate spatial measurements and generate a high-density 3D point cloud representing existing site conditions. The resulting data can be used for engineering design, as-built documentation, dimensional verification, clash detection, BIM, facility management and digital twin applications.

Scope of Work

- Terrestrial 3D laser scanning
- Industrial plant and facility scanning
- Building and structural scanning
- As-built documentation
- Existing-condition surveys
- Building façade and architectural scanning
- Scan-to-CAD services
- Scan-to-BIM services
- Point cloud registration and processing
- 3D modelling and dimensional verification
- Piping and equipment scanning
- Structural steel scanning
- Mechanical and electrical equipment scanning
- Tank and vessel scanning
- Road and infrastructure scanning

Benefits

- High-density and highly detailed 3D data
- Accurate representation of existing conditions
- Faster data collection compared with conventional methods
- Reduced site visits and field measurements
- Improved engineering and design accuracy
- Early identification of spatial conflicts
- Reduced project risk and rework
- Comprehensive digital record of existing facilities
- Supports BIM and digital twin applications

Equipment & Technology

Advanced Tools for 3D Laser Scanning & Reality Capture

Vision International uses advanced 3D technologies to capture, process, and model complex environments with accuracy, providing dependable data for planning, design, construction, and asset management.

3D Laser Scanner Trimble X7 / TX8

High-density 3D point cloud acquisition
High-accuracy terrestrial laser scanning
and imaging



GNSS Receiver Trimble GNSS / RTK

Establishment of survey control and
georeferencing

CAD Software AutoCAD / Civil 3D

2D drawings and engineering
deliverables





Total Station Trimble Survey Total Station

Survey control, positioning and verification



Digital Level Trimble Digital Level

Precise elevation control where required

Processing Software Trimble RealWorks

Point cloud registration, processing and quality control



Our Services

3D Scanning Technology

Vision International delivers advanced 3D laser scanning technology across the Middle East, Asia, and Africa, transforming complex sites and assets into precise digital representations.

01

Terrestrial Laser Scanning

The scanner emits laser pulses and measures their return to capture millions of points from surrounding surfaces. These measurements are combined to create a detailed 3D point cloud.

02

High-Resolution Imaging

Integrated photographic systems provide high-resolution visual information that can be associated with the 3D scan data for easier identification and interpretation of site features.

03

Survey Control

GNSS and total station observations can be used to establish project control and accurately transform the point cloud into the required project coordinate system.

04

Point Cloud Registration

Multiple scan stations are registered together using targets, spheres, cloud-to-cloud registration and survey control to create a unified project point cloud.

3D Laser Scanning & Reality Capture Service offering

Vision International delivers advanced 3D laser scanning and reality-capture services across the Middle East, Asia, Africa, and marine environments, transforming complex sites into precise digital assets.

Service

- 3D Laser Scanning
- Industrial Plant Scanning
- Oil & Gas Facility Scanning
- As-Built 3D Survey
- Digital Twin Data Capture

Service

- Building & Structural Scanning
- Piping & Mechanical Scanning
- Tank & Vessel Scanning
- Architectural Documentation
- Deformation / Movement Monitoring

Service

- Scan-to-CAD
- Scan-to-BIM
- Point Cloud Processing
- 3D Modelling
- Clash Detection
- Dimensional Verification

“Create an accurate
digital record
of the site.”



Typical Deliverables

Deliverables

- Registered 3D point cloud
- LAS / LAZ / E57 / RCP / RCS datasets
- 2D CAD drawings
- As-built drawings
- Sections and elevations

Deliverables

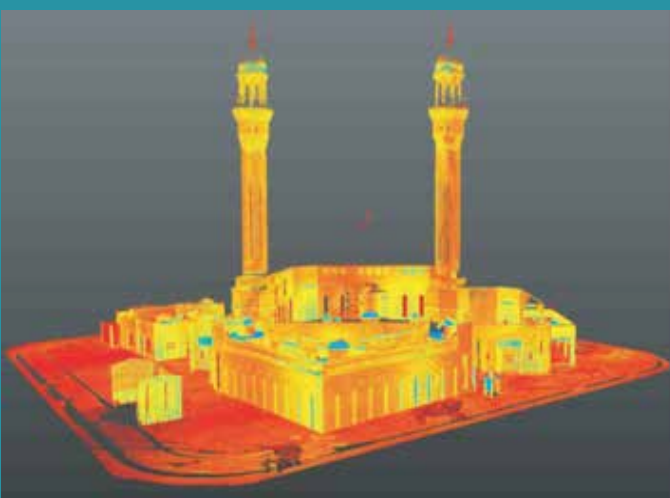
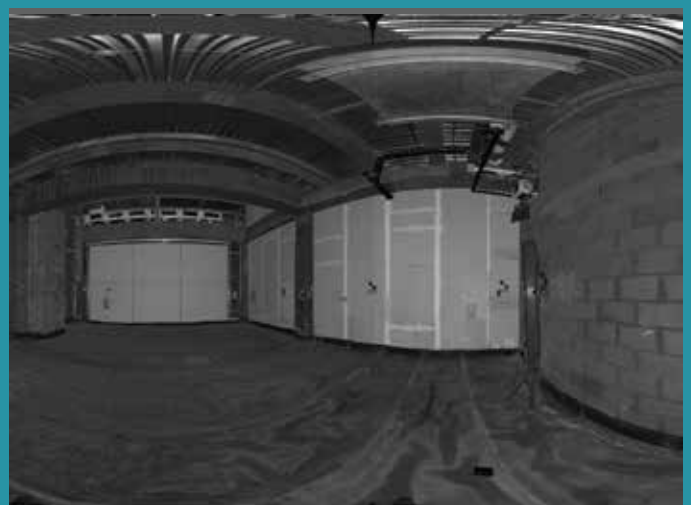
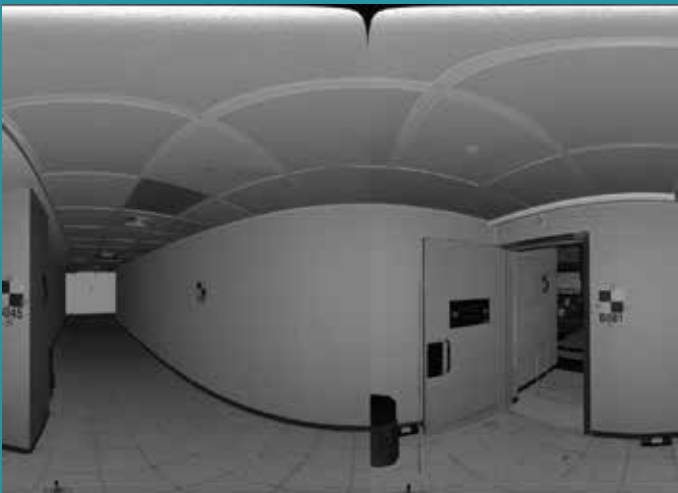
- 3D models
- BIM models
- Scan-to-CAD deliverables
- Scan-to-BIM deliverables

Deliverables

- Clash detection reports
- Dimensional verification reports
- Orthographic images
- High-resolution panoramic imagery

Deliverables

- Survey control reports
- QA/QC documentation
- Final technical report





SERVICE Workflow

Service Overview

The eight-stage workflow has been condensed into a clear service overview while retaining the full process, from project briefing and field capture through processing, quality control, reporting, and final delivery.

1. Briefing

Review project requirements, survey area, accuracy requirements, coordinate system and required deliverables.

2. Planning

Prepare scanning methodology, scan positions, control requirements, site access plan and HSE documentation.

3. Mobilization

Mobilize the scanning equipment, survey control equipment and qualified survey personnel to site.

4. Field Operations

Perform systematic scanning from multiple stations to capture complete and overlapping coverage of the project area.

5. Processing & Analysis

Register individual scans, process point clouds, apply survey control and perform data cleaning and classification.

6. Quality Control

Verify registration accuracy, control points, point-cloud coverage and data completeness.

7. Reporting

Prepare CAD drawings, 3D models, point-cloud datasets, dimensional reports and other project-specific deliverables.

8. Final Delivery

Submit the approved point cloud, drawings, models, reports and QA/QC documentation in the required formats.

Key Capabilities Summary

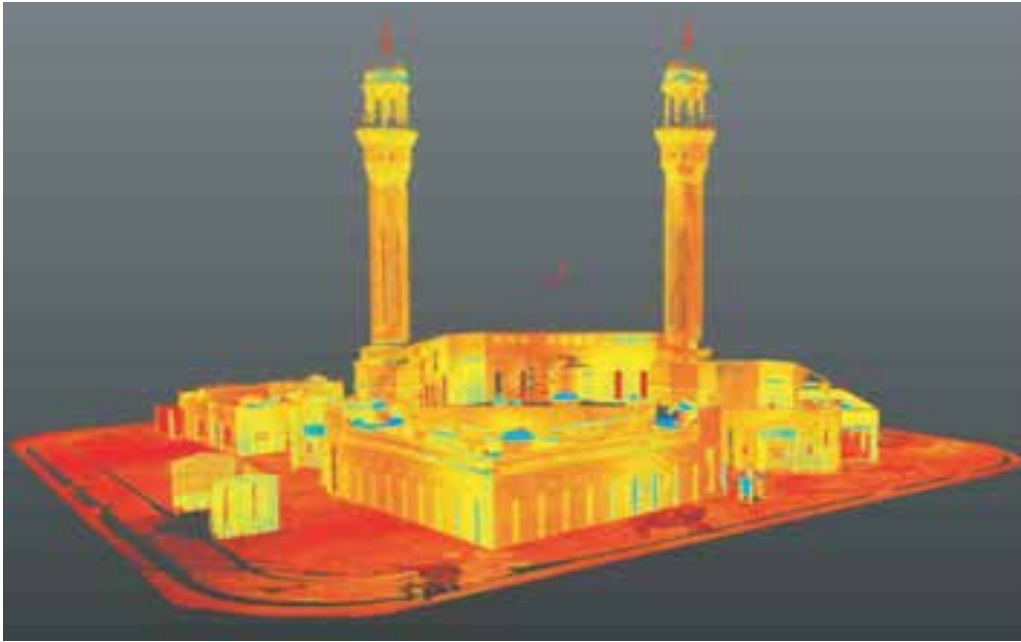
The key capabilities summary outlined

- Experienced 3D laser scanning survey team
- Advanced terrestrial laser scanning technology
- High-density 3D point cloud acquisition
- Accurate survey control and georeferencing
- Industrial and Oil & Gas facility scanning experience
- Scan-to-CAD and Scan-to-BIM capability
- Complex piping and structural documentation
- Large-scale facility and infrastructure scanning
- Comprehensive point-cloud processing
- Dimensional verification and quality control
- Fast mobilization and efficient field operations
- Strong HSE and QA/QC procedures
- Engineering-ready digital deliverables
- Support for BIM and digital-twin applications

The Company Highlights

- Experienced multidisciplinary surveying team
- Advanced 3D laser scanning and geospatial technology
- Extensive Oil & Gas and industrial project experience
- Integrated land, marine and engineering survey capabilities
- Strong QA/QC and technical reporting procedures
- Experienced field and processing teams
- Rapid mobilization capability
- Accurate and reliable engineering deliverables
- Commitment to HSE, quality and project requirements

What sets us apart?



With the key personnels, specialists and geotechnical engineers, Vision International combines advanced 3D laser scanning and reality-capture 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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