

AERIAL · LIDAR INTELLIGENCE

UAV Aerial Survey & LiDAR







Centimetre-grade aerial mapping, LiDAR point clouds, and stockpile volumetrics across Kuwait and the GCC — flown by Trimble UX and Microdrones platforms with full ground-control discipline.

Trimble UX5/UX9 · Microdrones LiDAR · Sub-5 cm accuracy · DSM/DTM/Orthomosaic



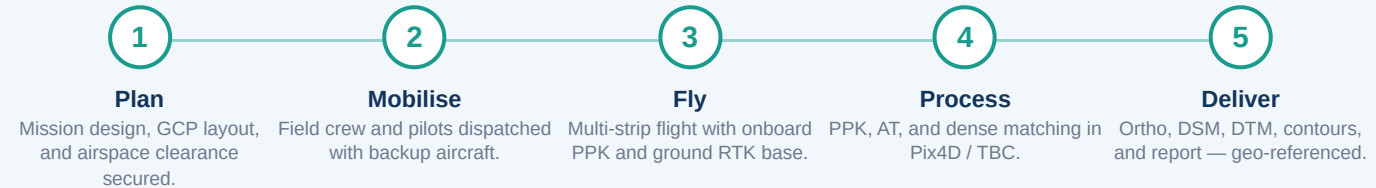
See the site before you set foot on it.

Vision International operates a full UAV fleet — fixed-wing Trimble UX, multi-rotor Microdrones with onboard LiDAR, and survey-grade RTK GNSS controllers. We fly oilfield concessions, infrastructure corridors, quarries, and coastal zones, then deliver corrected orthomosaics, digital surface models, contour maps, and stockpile volumes inside 72 hours of touchdown — all referenced to Kuwait national coordinates and audited against ground-control points placed by our MPW-registered survey crews.

 <p>Fixed-Wing Mapping Trimble UX5/UX9 fixed-wing for large-area mapping — corridors, quarries, and concessions up to 5 km² per flight.</p>	 <p>LiDAR Point Clouds Microdrones mdLiDAR systems delivering dense point clouds beneath vegetation and obstructions — ground-classified DTMs.</p>	 <p>Orthomosaic & DSM Sub-5 cm orthomosaic, digital surface model, and digital terrain model — Pix4D and Trimble Business Center workflows.</p>
 <p>Stockpile Volumetrics Aggregate, sand, and waste-rock volume calculations with statistical confidence — reconciled monthly for quarry clients.</p>	 <p>Linear Corridor Mapping Pipeline routes, transmission corridors, and road alignments — automated cross-section generation and clash audit.</p>	 <p>Permits & Compliance DGCA permits, KOC airspace clearances, and KISR coordination handled in-house — flights logged and certified.</p>

HOW WE WORK

From Flight Plan to Final Deliverable



Full UAV & LiDAR Service Offering

DGCA Approved

Trimble Authorised

Sub-5 cm Accuracy

PPK Workflow

AERIAL PHOTOGRAMMETRY

- Trimble UX5/UX9 fixed-wing mapping
- Multi-rotor mapping for tight sites
- Sub-5 cm horizontal accuracy with PPK
- Pix4D and Trimble Business Center processing
- Orthomosaic, DSM, DTM deliverables
- Ground-control point networks established
- Airspace clearance and permitting handled

LIDAR & POINT CLOUD

- Microdrones mdLiDAR airborne systems
- Ground-classified DTM beneath vegetation
- Multi-return classification (LAS/LAZ)
- Bare-earth extraction for civil design
- Power-line and transmission-corridor mapping
- Forest, palm, and dense-canopy penetration
- Integration with terrestrial laser scans

VOLUMETRIC & QUARRY

- Stockpile volume reconciliation reports
- Quarry face advance monitoring
- Cut-and-fill calculations for earthworks
- Periodic UAV monitoring contracts
- Reserve estimation and depletion tracking
- Time-series differencing across surveys

INFRASTRUCTURE & ASSETS

- Pipeline corridor inspection
- Road network condition mapping
- Tank-farm, refinery, and plant overflights
- Power-line and substation inspection
- Coastal erosion monitoring
- Construction progress documentation

The Vision Difference — Why Clients Choose Us



Integrated Delivery

Field crews, senior engineers, and accredited ISO 17025 laboratory under one roof — no hand-off delays, no subcontractor gaps.



Engineer-Led Reports

Every deliverable is signed by a senior chartered engineer — findings interpreted for design, not delivered as raw data.



Schedule-Driven

Owned equipment, owned laboratory, owned teams. We hit oil & gas, MPW, KOC, and EPC schedules — every time.

Sectors We Serve

Oil & Gas

Infrastructure

Marine & Ports

Buildings & Towers

Industrial

Government

2004

ESTABLISHED

2000+

PROJECTS DELIVERED

4

ISO CERTIFICATIONS

Kuwait

& GCC COVERAGE