

COMPANY

- UAV Geomatics is a geomatics engineering company that offers mapping and inspection services using the Aeryon Scout, an unmanned aerial vehicle (UAV).
- UAV Geomatics invests in leading edge technology to provide solutions for complex project requirements.

SYSTEM

- Aeryon Scout is an unmanned aerial vehicle (UAV) that captures and transmits high-resolution digital images and video.
- All high-resolution data is synchronized with GPS location and inertial orientation information for processing and mapping.
- An integrated 3-axis stabilized high resolution digital camera provides full range of motion to the side or vertically to the ground.
- A unique airborne platform for data collection can be operated to fit specific client requirements.
- Can be deployed rapidly in harsh weather conditions and can be sent into hazardous areas thus eliminating human risk.

Increase personnel safety, improve decision making processes, decrease costs

SERVICES

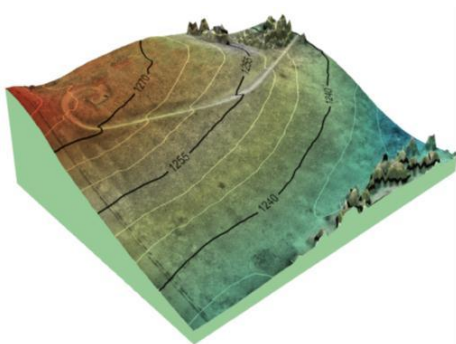
INFRASTRUCTURE INSPECTIONS

- Buildings and facilities
- Roads and pipelines
- Industrial roofing
- Flare stacks
- Transmission insulators and towers
- Oil rig derricks
- Radio and communication towers
- Wind farms (blade and turbines)
- Thermal imaging for leak detection



ENVIRONMENTAL INSPECTIONS

- Reclamation sites
- Regrowth assessment
- Tailings ponds
- Leak detection
- Wildlife monitoring



GEOMATICS

- Photogrammetric Mapping
- Digital Elevation Model (DEM)
- Panoramic Mapping
- GIS Data
- Environmental Mapping
- Custom Mapping
- Volumetric Studies

Capable of 2 cm per pixel resolution

The ability to hover and isolate features enables real-time inspection monitoring



ENVIRONMENTAL

- Pre-disturbance and reclamation planning
- Environmental and reclamation site assessments and mapping
- Tree and shrub growth monitoring
- Tailings pond monitoring
- Wildlife and biodiversity site specific monitoring
- Activities related to regulatory compliance and permitting
- Hydrological mapping
- Tree disease detection and monitoring
- Natural disaster assessment
- Forest fire detection and surveillance



POWER

- Transmission line inspection
- Radio, communication, and transmission tower inspections
- Wind farms (blade and turbines) inspections



The collection of imagery synchronized to GPS position and inertial orientation data delivers full geospatial data assessment and management



OIL AND GAS

- Site specific orthophoto mapping and 3D elevation models
- Tailings pond monitoring
- Pipeline monitoring and leak detection
- Flare stacks inspection (in operation)
- Spill tracking
- Stock pile and open pit volumes
- Roads and runway inspection and monitoring
- Infrastructure surveillance
- Thermal imaging for heat leak detection
- Activities related to regulatory compliance and permitting
- Accident and natural disaster assessment
- Forest fire detection and surveillance
- Search and Rescue (SAR)
- Hydrological mapping
- Pre-disturbance and reclamation planning
- Environmental and reclamation site assessments and mapping
- Tree and shrub growth monitoring
- Wildlife and biodiversity site specific monitoring

Volumetric data achieved is within 1% of standard GPS surveys

INFRASTRUCTURE

- Pipeline monitoring
- Roads and runway inspection and monitoring
- Infrastructure surveillance
- Thermal imaging for heat leak detection
- Spill tracking
- Power transmission tower and insulator inspections
- Radio and communication tower inspections
- Wind farms (blade and turbines) inspections
- Flare stack inspections (in operation)



MINING

- Stock pile volumes
- Open pit volumes
- Tailings pond monitoring
- Pre-disturbance and reclamation planning
- Environmental and reclamation site assessments and mapping
- Wildlife and biodiversity site specific monitoring
- Tree and shrub growth monitoring

