

Unmanned Aircraft Systems

Unmanned Aircraft Systems (UAS) complement the Middough engineering, inspection and data acquisition services for safe, efficient, accurate, reliable, and cost-effective data acquisition solutions. Middough personnel are certified, trained and qualified to safely operate FAA registered drones and have completed thousands of flights in the utility, heavy industrial, production and manufacturing sectors. Middough specializes in the use of UAS and sensors to collect data for the following applications.

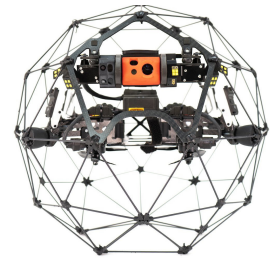
UAS can overcome the challenges that many face while inspecting structures and assets, such as, boilers, cooling towers, ductwork, flare stacks, pipe racks, pipes and insulation, process ponds, solar panels, substations, tanks, vessels and so much more.

UAS and Sensors

- Heavy Lift, Midsized, Compact & Confined Space UAS
- State-of-the-art Sensors
 - DSLR/Mirrorless High MP RGB
 - High Zoom RGB
 - Radiometric Thermal
 - Light Detection and Ranging (LiDAR)
 - Optical Gas Imaging (OGI)
 - Ultraviolet (UV) Corona
 - Methane



DJI M300



Flyability Elios

Project Applications

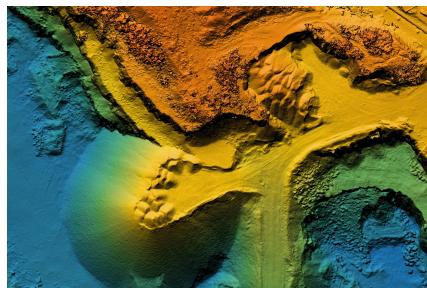
- Outdoor & Indoor Detailed Visual & Thermal Inspections
- Photogrammetry
- Volumetrics
- 3D Modeling
- Surveying
- Mapping
- Optical Gas & Corona Inspections
- Construction Site Monitoring
- Turnaround (TAR) Support

Benefits

- Increase Safety & Efficiency
- Decrease Cost of Data Collection
- Live Stream to Subject Matter Experts
- Reduce/Eliminate Unnecessary Manlift, Scaffold, Rope, Access, Spider, Bucket Truck, Confined Space or Helicopter Hazards and Expenses
- Collect Actionable Data while Decreasing
- Risks to Personnel
- No Preparation or Movement of
- Materials/Equipment Necessary



Substations



Mapping



Electric Transmission & Distribution

