



Unmanned Aircraft Systems (UAS)

VERSATILE. SAFE. COMPREHENSIVE.

BE IN THE KNOW



Did you know you can use UAS services to evaluate the condition and detect flaws in your equipment even in typically inaccessible areas while in-service?

Are you aware that UAS is an effective alternative to putting personnel in challenging work areas, at extreme heights, or in dangerous confined-space working situations?

Did you know drones are useful for inspection, mapping, and data collection services in areas as varied as emergency response and radiation detection?

With Unmanned Aircraft Systems (UAS), **Premium Inspection & Testing Group** offers a safe, efficient alternative to accessing challenging, remote locations without reducing the quality of your critical inspections. Providing a cost-effective and versatile solution, UAS services eliminate the need to erect expensive scaffolding, perform complicated access planning, or place inspection personnel in high-risk safety situations. The result? Peace of mind for you and your employees, plus less shutdown time, lowered costs, and extended critical asset life.

► **FAA APPROVED**

- Section 333 exemption holder
- Part 107 compliant
- Full-time pilots on staff to handle any size project

► **LOW RISK**

- Industry-leading UAS-specific safety systems
- Successful audits completed by leading asset owner clients

► **EXPERIENCE**

- Hundreds of hours of industrial UAS operations
- Private Pilot certified operators on staff

EXCEPTIONAL SERVICE. DELIVERED.

What type of services can be performed with UAS technology?

Inspections & Reliability

STRUCTURES – INFRARED, API-VISUAL & 3D • Pipe-Racks, Flare Stacks, Internal & External Tank, Furnace / Chimney Stacks, Power Distribution, Docks, Fin Fans, Cooling Towers
CORROSION UNDER INSULATION (CUI) INSPECTION SUPPORT

Capital Projects

DATA COLLECTION • Aerial documentation for funding, 3D modeling & scanning, Scaled site maps
SITE COMMUNICATION • Real-time information share, Road closures, Firewater outages
PROGRESS MONITORING • Visual documentation

Turnarounds

DAILY / WEEKLY TAR TRACKING
 Progress updates & documentation, Daily reporting & live feed
CONTRACTOR ACCOUNTABILITY, POST-TAR INTEGRITY
INTERNAL INSPECTIONS • Initial assessment, Reduction of scaffolding

Mapping

TOPOGRAPHIC • LOPC, Hazardous areas
ORTHOGRAPHIC MAPPING • .24 inch vs. traditional 6 inch
SITE PLANNING / SOFTWARE INTEGRATION • Civil 3D, CAD
EXISTING WORKFLOW INTEGRATION • .DWG, GEOTIFF

3D Modeling

ELEVATED UNIT SCANNING, FULL FACILITY MODELS, ON/OFF-SITE PIPELINES, ACCURACY DELIVERABLES • Raw Point cloud, .NWD, .RCP, ArcGIS, Scalable data

Environmental & LDAR

PIPELINES – ON-SITE AND OFF-SITE • Leak detection using Gas Find sensors with embedded GPS data
EMISSIONS MONITORING • Pipe-racks, Flares – elevated and ground based, Tanks – seal gap and tank top contours, Stacks

Emergency Response

INCIDENT INSPECTION, SPILL RESPONSE, POST-STORM ASSESSMENT, RADIATION AND GAS DETECTION, LIVE STREAM TO EMERGENCY OPERATIONS CENTER (EOC)



Premium’s UAS services are an FAA-approved, low-risk option that provides vital information about the condition of your assets without the need to put personnel in tight spots. Our experienced team skillfully and easily maneuver our collision-tolerant drones in tight and difficult-to-reach spaces, including ductwork, silos, boilers, and more. Armed with DUAL 1080 HD & THERMAL IMAGERY and an LED lighting system, Premium Group’s drones provide precise imagery and give you the comprehensive feedback you need to determine your assets’ fitness for service.



ASK US ABOUT

For more information on how Premium Group’s UAS can help you create efficiencies, improve safety, and increase communication.

EQUIPMENT		SAFETY CREDENTIALS
Aircraft	DJI Matrice 600 Pro, DJI Matrice 600 w/ RTK, Intel – Falcon 8+, Flyability Elios, DJI S900	<ul style="list-style-type: none"> • TWIC, OSHA & MSHA Certified • ISNetwork & Avetta (PICS) Approved • Licensed Pilot Operators • Full Health & Safety Program • Substance Abuse Program • Motor Vehicle Program • DISA Compliant
Software	Bentley ContextCapture, ArcGIS Pro, PanoTour, Flyability Inspector	
Processing Equipment	Custom Built Liquid Cooled CPUs with extensive processing upgrades	
Sensors / Payloads	Zenmuse – 30x Zoom, Sony a7R – 36 Megapixel, Panasonic GH4 – 4K Video, Zenmuse – 9x Zoom, FLIR T1020 – Thermal/IR (1024 x 768), FLIR Vue Pro R – Thermal/IR (640 x 512), FLIR GF320 – Thermal/IR, Custom capabilities – 3D Printed	

Specifications subject to change without notice.



QCTL DIVISION

CAPITOL DIVISION

QCC DIVISION

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Please visit www.pitinc.com for contact information for a specific location.