UAV Flight Services Company

A dedicated team of aviators, technologists, and engineers.

What We Do

UAV flight services for data collection, mapping, and inspection

What Sets us Apart

Extensive field experience, strategic partnerships, and quick turnaround custom hardware & software solutions.
We help companies make critical business decisions faster, safer, and more cost effective through tightly integrated UAV data collection, processing, and presentation services.
THE PROCESS
How it Works

Initial Plan & Review → Quote

FLIGHT OPERATIONS

Mission Planning → DATA DELIVERED

Post Processing
...Work BACKWARD
**CHECKLIST**

*For Contracting UAS Operations*

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CAPABILITIES

General Flight Considerations

WIND & PRECIP

UAV operations are best conducted on sunny or overcast days, when winds are <~15mph. Light precipitation is manageable, but avoided whenever possible.

FLIGHT TIME

Most UAV can fly for 15 – 30 minutes, and by combining flights can cover from tens to hundreds of acres. Fixed wing UAS can cover more area per flight, and should be used for larger mapping projects.
CONDITIONS

Weather & Site Considerations

TERRAIN & OBSTACLES

Flat or rolling terrain with little tree cover is ideal for UAV mapping projects. Multirotors can operate out of smaller launch areas and operate closer to structures.

TEMPERATURE

UAVs can operate year round in almost any temperature, with the human operators being the largest concern. For most cases, use 0 – 100F as a guide.
LINE OF SIGHT

UAS must remain within the operator’s line of sight, in case of emergency. This also means operations must be conducted between dawn and dusk.

AIRSPACE

In most cases, commercial UAS must not operate within controlled airspace near airports, and are limited to 400FT above the ground & structures.
UAS Operating Area DEFINED AS 0.2NM RADIUS OF 444135.9N0732708.8W (2.6NM NNE PBG) SFC-200FT AGL 1608111200-1608111600.
AUTHORIZATION OR WAIVER UNDER Part 107

107.41 Operations within Class B C D E require authorization

Apply Online
Responsibe Person / Contact
Certificate Number
UAS Make / Model
Date / Time
Lat / Long
Max Altitude
FAA SUMMARY

- Registration
- Authorization
- Air Map
- LOS Line of Site
- TRFs Temporary Flight Restrictions (ie POTUS, vPOTUS)
DATA

What can be captured?
Sensors

Current

Viz

Visible
High Resolution Still & Video

IR

IR & Multispectral
Thermal & Multispectral

LIDAR

Purchased Ranger MiniVUX from Phoenix LiDAR, April Delivery

Future

OTHER
RTK GPS
Gas Detectors
Your Sensor Here
DATA TYPES

Geotagged Imagery
Geo-referenced still & video

Point Clouds
Photogrammetric point clouds in standard formats

GIS
High resolution orthoimagery, multispectral & raster elevation models

CAD
Contours & Basic Feature Extraction
GIS Report...

Easy to Navigate

Access for Field Staff

Change Detection!

Stored in queryable geodatabase
Multispectral - NDVI

Spectral bands
High-grade optical filters deliver precise information specially targeted to agricultural applications.
• Project documentation
• Community outreach
• Coastal erosion tracking
• Vegetation health
Point Cloud Measurements
Digital Elevation Model
Multispectral - NDVI

Spectral bands
High-grade optical filters deliver precise information specially targeted to agricultural applications.
Jenness Beach

UAV comparison vs. existing dataset
Control Point Targets
Feature Extraction
Feature Extraction
Landfill Documentation

Marketing, PR... and existing conditions!
Digital Elevation Model
CAUTION

REMOTE AIRCRAFT IN OPERATION

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