Unmanned Aircraft Solutions

FAA Section 333 Commercial Operator

Avion has been in the aviation industry since 1992 and was founded on the principles of integrity, exemplary service, and exceeding customer expectations. Our team can get your agency's UAS program "in flight" and ensure that your operations are cost-effective, legal, and safe.

Our FAA-licensed operators have the experience you can trust to provide you with the aerial data you need for the following areas:

- Inspection
- Public Safety
- Utilities
- Marketing
- Asset /Project Management
- Construction
- Survey and GIS
- Agriculture

UAS Training

Avion has an established military aviation-based training background. Our training standards comply with both current and proposed future FAA regulations. Our certified, licensed UAS operators provide comprehensive ground and flight instruction that produces effective UAS operators and visual observers in the field.

Aerial Data To Meet Your Needs

Infrastructure Inspection

UAS have the ability to revolutionize inspections of critical infrastructure providing real-time imagery of hard to reach framework at a fraction of the cost and a much higher level of safety. Our aircraft systems come within feet, even inches of the subject being inspected acquiring close proximity images at high altitudes that were once only accessible with a long-range zoom from a manned aircraft.

2D and 3D Mapping

With integrated GPS technology, the location accuracy is as impressive as the resolution. Avion's UAS services can safely provide higher quality images than traditional aerial photography. Using UAS, Avion can provide aerial data in a more time- and cost-efficient process than ever before.

Thermal Imagery

Avion's advanced thermal detection allows access to very high-resolution, geo-rectified thermal imagery at local spatial scales enabling a wide array of industry's needs to be met. Applications can include precision agriculture, search and rescue missions, aerial firefighting, and even analysis of heat losses for industrial buildings or electrical utilities. Infrared imagery can improve response time and focus maintenance efforts saving time, money, and lives.

Inspection

Mapping

Thermal

Proud Member of:

ASSURE
Alliance for System Safety of UAS through Research Excellence

KNOW BEFORE YOU FLY

AUVSI

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Know Before You Hire

- Illegal UAS operations can be fined up to $27,500 per incident by the FAA and lose their 333 Exemption opportunity
- Hobbyists may not offer UAS-captured data/imagery for compensation
- Commercial UAS flight is against the law without FAA approval (Public law 112-95)
- Commercial UAS flight requires FAA pilot's certificate
- Unmanned aircraft operating commercially must be registered with the FAA
- Aerial Imagery provider should be insured
- Insurance provided to hobbyists through the AMA does not cover commercial operations or UAS flights that do not take place on an AMA airfield

The advantages of employing unmanned aircraft systems (UAS) are leading to unprecedented growth within the industry. It is difficult for consumers to find current, reliable information on regulations and requirements to help them select an appropriate commercial UAS operator. The information provided is an overview of the FAA guidelines regarding commercial operation of UAS in the National Airspace. When selecting a UAS provider, use this information to protect yourself from unapproved UAS operations.

Know Before You Fly

- Unmanned aircraft must remain within visual-line-of-sight of the operator or visual observer
- Daylight-only operations (Official Sunrise to Official Sunset, Local Time)
- Must yield right-of-way to other aircraft, manned or unmanned
- Maximum airspeed of 100 mph; maximum altitude of 400 feet above ground level (AGL)
- Maximum weight of 55 lbs
- Operations in controlled airspace are only allowed with authorization from Air Traffic Control (ATC)
- Operators must be vetted by the Transportation Security Administration (TSA)
- UAS operations for data/imagery collection must be conducted by an FAA approved commercial operator

For more information, visit:
avionsolutions.com/UAS

An Employee Owned Company
Avion Solutions, Inc.
Innovation That Matters.. Experience You Can Trust!

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