Aretas Aerial
UAV MONITORING SOLUTIONS

Call today and let us help make your UAV project a success 877-218-6232

UAV SYSTEMS

1. UAV VEHICLE
We help chose the right UAV for your specific needs

2. COMPONENTS PAYLOAD
The right components for the job which can include:

FLIR THERMAL IMAGING

HD VIDEO & PHOTOGRAPHY

3. LIVE & ARCHIVED DATA
Live on-site data for immediate decision making. Archived data for investigations

ADDITIONAL SENSOR OPTIONS

CO   Carbon Monoxide
CO2   Carbon Dioxide
NO2   Nitrogen Dioxide
O3   Ozone
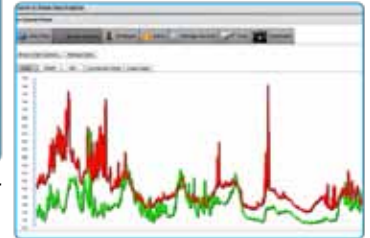VOC   Volatile Organic Compounds
PM   Particulate Mater

More options available!

Aretas Aerial - Live Actionable Data

Aretas Aerial is a turn-key provider of UAV driven solutions from custom data gathering such as video, FLIR and radiation, to pilot services or training your team. We engineer all of the solutions for your specific needs in-house to meet your goals fast and within budget.

Aretas specializes in creating complete sensor platform packages that mount directly to UAV vehicles to meet a variety of data collection needs.

We offer complete UAV + Sensor Packages with multirotor & fixed-wing UAVs or you can mount sensor packages to your own UAV vehicle.

Online Analytics

This real-time reporting can be viewed from your PC using the Aretas mapping & reporting software giving you access to critical data to make decisions 24/7 at any of your locations world-wide. The software allows you to set alerts, strategies, thresholds, view historical data and watch numerous locations and buildings at once. Call today for a free demo of the system.

HD Video, Thermal & Photography Data

The Aretas Aerials technical team can integrate a wide variety of HD cameras onto your UAV. Perfect for finding people or animals in rough terrain. Live thermal imaging delivered to your base-station allows you to give your team immediate information on-the-ground.
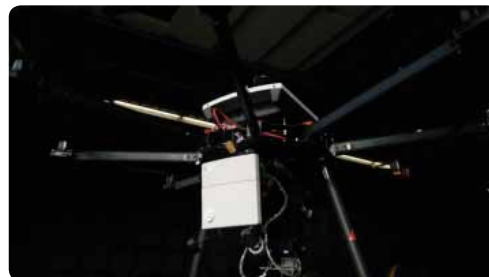
Multiple Gas Sensors

All of the Aretas Aerial solutions are expandable to include one or more of our core sensor technologies such as temperature, relative humidity and gases such as VOCs. Aretas is an agile company that will work with you to create the specific monitoring solutions you need.

Custom Payloads - HD Video / DSLR Camera

UAV's can be customized to carry just about any camera type from small form factor HD to small body cinema grade camera such as the Blackmagic. With such a wide variety of camera solutions on the market, we can suggest some for your needs, or integrate your ideal solution right onto your chosen platform.

Aretas Aerial *a division of Aretas Sensor Networks, Inc.*
877.218.6232 | **www.aretasaerial.com**

Aretas Aerial

Thermal Camera

The thermal camera is an LWIR camera solution that is smaller than a dime, keeping weight on our UAVs to a minimum, and is ten times less expensive than a traditional IR camera. Using a focal plane array (FPA) of 80 × 60 active pixel the video resolution from this small package is impressive. Other thermal cameras are available to meet your specific project requirements.

- Thermal sensitivity <50 mK
- Multiple lens options: 50° / 25° FOV
- Spectral range Long Wave infrared, 8 μm to 14 μm

Heatmap View

Sensor readings can be transmitted wirelessly up to 40 kms away from an irradiated hot zone and viewed through the online Reporting, Mapping and Analytics system. Multiple sensors can be viewed remotely and radioactive zones can be geographically highlighted on our heatmap view.

UAV Quadcopter V650

UAV Specs
- Frame: 650 frame
- Transmitter: FrSky Taranis with X8R (8/16ch) receiver
- Motors: 4016-380kv
- Props: 15" carbon fiber
- ESCs: 40A
- GPS: UBlox NEO-M8N

UAV Hexacopter V680

UAV Specs
- Frame: 680 frame
- Transmitter: FrSky Taranis with X8R (8/16ch) receiver
- Motors: 4016-380kv
- Props: 13" carbon fiber
- ESCs: 40A
- GPS: UBlox NEO-M8N

UAV Heavy Lift Quadcopter V960

UAV Specs
- Frame: X4 frame
- Transmitter: FrSky Taranis with X8R (8/16ch) receiver
- Motors: 6115-320Kv
- Props: 22" carbon fiber
- ESCs: 60A
- GPS: UBlox NEO-M8N

UAV Octocopter V1000

UAV Specs
- Frame: X8 frame
- Transmitter: FrSky Taranis with X8R (8/16ch) receiver
- Motors: 4114-320kv
- Props: 15" carbon fiber
- ESCs: 40A
- GPS: Ublox NEO-M8N

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