

Vision Aerial Introduces OGI Scout 2.0 with Aquanta Vision Pixel Analysis Mode

First U.S. drone manufacturer to integrate Aquanta Vision's pixel-based technology into an airborne OGI system

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EINPresswire.com/ -- Vision Aerial today introduced [OGI Scout 2.0](#), the next generation of its aerial optical gas imaging payload for the [Vulcan SX](#). The upgraded system integrates Aquanta Vision's [Pixel Analysis Mode](#), or PAM, adding a physics-based option for detecting and coloring methane and other hydrocarbon gas plumes during flight.



PAM detects gas at a tank farm

Vision Aerial is the first U.S. drone manufacturer to partner with Aquanta Vision on an aerial PAM integration. The patented, physics-based software analyzes the infrared signal pixel by pixel and

colorizes gas plumes live in the operator display. Because PAM runs directly on the camera, it adds no separate payload, weight or drag to the aircraft.

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PAM is a force multiplier for gas detection teams in the field.”

Shane Beams, Founder and CTO

OGI Scout 2.0 continues to be built around Sierra Olympia's Ventus OGI, a 640-by-512-resolution mid-wave infrared camera core designed to detect and visualize hydrocarbon gases. The Ventus OGI includes Sierra Olympia's Gas

Enhancement Mode, or GEM, which uses frame-based analysis to colorize gas plumes. PAM complements rather than replaces GEM by adding a pixel-based analysis option.

PAM can analyze and colorize plume activity while the aircraft remains in motion, giving operators another way to identify areas for closer inspection. During flight, the operator can view the standard monochrome OGI image, select GEM or PAM, adjust the mode's settings to refine the image, and use Vision Aerial's MarkPoint software to mark and document the finding in real time, saving countless hours of post flight work.

“PAM is a force multiplier for gas detection teams in the field,” said Shane Beams, Founder and CTO of Vision Aerial. “The ability to detect while on-the-go, significantly reduce false positives, and reduce dwell times for detailed inspections greatly increases the effectiveness of the flight crew.”

OGI Scout 2.0 incorporates Sierra Olympia’s upgraded SightLine 4000 processing board paired with a specially tuned convective cooling system, providing the computing capacity required for applications such as PAM. Together, the changes represent one order of magnitude greater compute and support indefinite sensor operation while advanced analysis modes are running.

“Vision Aerial is bringing PAM into a fully integrated American-made aerial inspection system,” said Babur Ozden, CEO and Founder of Aquanta Vision. “This partnership extends physics-based pixel-level analysis to the aerial operator, providing another practical tool for finding and documenting gas leaks across large, difficult or hazardous sites.”

The Ventus OGI detects and visualizes gases important to oil and gas leak detection and repair programs, including methane, ethane, propane, propylene, 1-Pentene, butane, Ethyl Benzene, heptane, hexane, isoprene and octane.

OGI Scout 2.0 is available to order, demonstrate and ship now as the standard airborne OGI payload for new Vulcan SX customers. Existing OGI Scout customers can return their payload to Vision Aerial for a paid upgrade rather than purchasing a new system.

To request an OGI Scout 2.0 demonstration, visit visionaerial.com.

About Vision Aerial

Vision Aerial has designed, manufactured and supported unmanned aircraft systems in Bozeman, Montana since 2013. Its American-made, NDAA-compliant aircraft and integrated payload systems support government research, infrastructure inspection, mapping, energy, environmental operations and public safety. Learn more at visionaerial.com.

About Aquanta Vision

Founded in 2023, Aquanta Vision develops applications that use optical gas imaging technologies to simplify the detection of methane and other gases. Its applications are based on a patented, physics-based signal-processing algorithm and are compatible with a range of OGI cameras. Aquanta Vision graduated from Chevron Studio, Shell GameChanger, Rose Rock Bridge and Innosphere industrial technology accelerator programs and is a recipient of multiple grants and awards. Its investors include Chevron Technology Ventures, Marathon Petroleum Corporation, EIC Rose Rock, Ecosphere Ventures and Odyssey Energy Advisors. Learn more at aquantavision.com.

About Sierra Olympia Technologies

Sierra Olympia Technologies supplies thermal imaging camera systems and components for

industrial, commercial, scientific and government applications. Its Ventus OGI camera core is designed for integration into systems that detect and visualize hydrocarbon gas emissions. Learn more at sierraolympia.com.

Media Contacts

Aquanta Vision

Babur Ozden

CEO and Founder

babur@aquanta.vision

Sierra Olympia

Jeff Leake

Vice President of Business Development for OGI and Thermography cameras

jeff.leake@sierraolympia.com

Susan Roberts

Vision Aerial

susan@visionaerial.com

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