

VENTUS OGI



SIERRA-OLYMPIC
Technologies Inc.

Cutting-edge Optical Gas Imaging camera

A specialty mid-wave infrared camera designed to visualize hydrocarbon gasses, including methane and propane, the Ventus OGI is the most advanced camera of its kind on the market.

- + Long-life HOT MWIR detector
- + 640 x 512 resolution / 15 μm pixel pitch
- + Low-SWaP, integration-ready
- + 25 mm / 50 mm lens models
- + F 1.5 optic; 2x, 4x, 8x digital zoom
- + Gas Enhancement Mode colorizes leaks

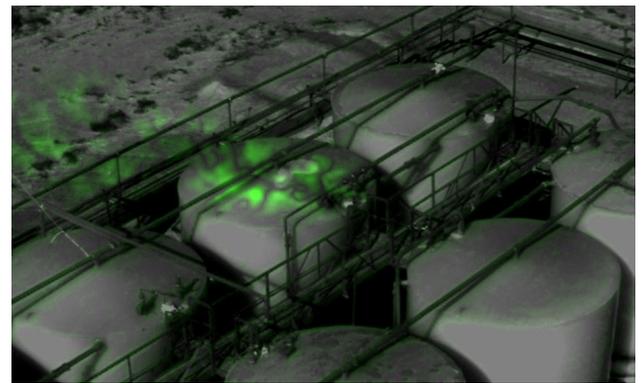


25 mm lens model

Details

The Ventus OGI (Optical Gas Imaging) camera core brings together the latest in detector, cooler and lens design for detecting and visualizing hydrocarbon gas leaks. The powerful low SWaP platform is built for integration into manned and unmanned aerial platforms for surveying large areas of infrastructure in a fast and effective manner.

The Ventus OGI utilizes a state-of-the-art 640 x 512, 15 μm pixel pitch HOT MWIR detector array with a special narrow bandpass cold filter in a miniature, long life, closed cycle, stirling cooler with an f/1.5 cold shield and an optimized purpose built lens to provide unmatched thermal sensitivity. Weighing in at only 541 grams for the 25 mm model and 570 grams for the 50 mm model, the Ventus™ OGI is a powerful tool for OEM's and integrators looking for the best optical gas imaging technology available.



Applications

- + Visualizing hydrocarbon gasses
- + Quickly survey large areas
- + Aerial or ground, manned or unmanned systems
- + Image from a safe distance
- + Designed for integrators
- + Meet requirements, reduce fines
- + Around-the-clock surveillance

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Feature Specs

DETECTOR

Detector type	High Operating Temperature (HOT) MWIR
Array format	640 x 512
Pixel pitch	15 μ m
Spectral response	3.2 - 3.42 μ m
Frame rate	30 Hz
NETD	<35 mK

LENS

EFL	25 mmw 50 mm
F#	1.5 °
FOV	21.7 ° (25 mm) 11 ° (50 mm)
Digital zoom	2x, 4x and 8x

SYSTEM

Analog video output	NTSC/PAL
Digital video output	Uncorrected 14-bit CameraLink
Onboard video storage	Yes, Micro SD
Camera control	Serial / Ethernet

ENVIRONMENTAL

Size (LxWxH)	147 x 71 x 73 mm (25 mm lens) 138 x 75 x 77 mm (50 mm lens)
Weight (approx)	541 g (25 mm lens) 570 g (50 mm lens)
Mounting	¼-20 and M3 tapped holes
Operating temperature	-35°C to +65°C
Power consumption	12VDC / 6W typ, 12W peak

Export Classification: Dual Use

50 mm lens model

