

VENTUS OGI

SMALLEST, LIGHTEST AND LOWEST POWERED OPTICAL GAS
IMAGING CAMERA CORE ON THE MARKET. EPA NSPS 000A CERTIFIED.



SIERRA-OLYMPIC
Technologies Inc.



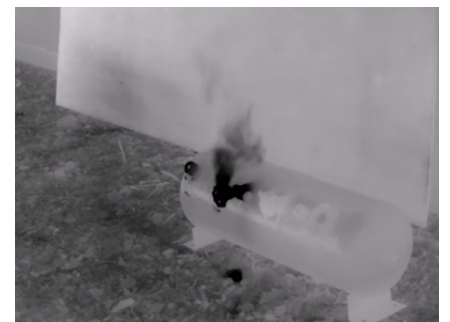
- + Visualize and trace gas leaks in real time
- + Monitor parts of a plant that are difficult to reach
- + Perform inspections from a safe distance



The Ventus OGI (Optical Gas Imaging) camera core brings together the very latest in detector, cooler, and lens design for the detection and visualization of methane, propane, butane, and many other hydrocarbon gas leaks. The combination of these state-of-the-art components creates the smallest, lightest and lowest powered OGI camera core in the market today, making it ideal for integration into gimbals or enclosures for unmanned aerial vehicle platforms or fixed-mounted, continuous monitoring systems.

The Ventus OGI utilizes a 640 x 512, 15 μ m 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 542 grams with a lens and sized at 148mm x 71mm x 73mm, the Ventus OGI is an easy choice for OEM's, airborne applications, and integrators.

The Ventus core offers digital and analog outputs (MPEG-TS IP Video, CameraLink[®], NTSC/PAL) and RS-422 serial camera control. Ventus OGI offers superior image quality with true VGA image size for the finest resolution available in any OGI camera. The combination of optimized optics and the f/1.5 aperture creates images of stunning clarity and sensitivity. A suite of advanced image processing functions including automatic gain and dynamic contrast control delivers visual acuity to operators for efficient leak detection and remediation.



Using MWIR cameras to detect emissions helps guarantee the safety of people working in and around the oil and gas equipment.



The Ventus Optical Gas Imaging Camera can detect small (~60 g/hr) leaks from several meters away or large leaks from hundreds of meters away.

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FOCAL PLANE ARRAY:

| | |
|------------|---------------|
| Resolution | 640 x 512 |
| Sensor | HOT MWIR |
| Pitch | 15µm |
| Wavelength | 3.2 - 3.42 µm |
| Framerate | 30Hz |

OPTICS, SIZE, AND WEIGHT:

| | |
|--------------------------------------|--------------------------------------|
| Part Number | SL-VG63-025-00 |
| Focal Length | 25mm |
| HFOV | 21.7° |
| F# | 1.5 |
| Weight (approx) | 542g (1.2 Lb) |
| Envelope Dimensions (LxWxH) (approx) | 148 x 71 x 73mm 5.8 x 2.7 x 2.9in |
| Digital Zoom | 4x |

INTERFACE:

| | |
|-----------------------|------------------------------|
| Analog Video Output | NTSC/PAL |
| Digital Video Output | 14-bit CameraLink |
| IP Video Output | MJPEG or H.264 Encoded |
| IP Broadcast | Unicast / Multicast |
| Onboard Video Storage | Up to 32GB microSD |
| Command and Control | RS422 / Ethernet |
| Power Consumption | 12VDC / 6W typ (12W peak) |

ENVIRONMENTAL:

| | |
|-----------------------------|-------------------------------------|
| Operating Temperature Range | -35 to +65C |
| Shock | Operating: 15G / Non-operating: 40G |
| Mounting | ¼-20 Tripod Mount, M4 Tapped Holes |
| Certification | 0000a Certified (<= 60 g/hr) |

DETECTABLE GASES:

Acetic Acid, Ammonia, Benzene, Butadiene, Butane, Ethane, Ethylbenzene, Ethylene, Heptane, Hexane, Isoprene, Methyl Ethyl Ketone (MEK), Methane, Methanol, MIBK, Octane, 1-Pentane, Propane, Propylene, Sulphur Dioxide, Toluene, Vinyl Chloride and Xylene.

ADDITIONAL FEATURES

- + OGI Optimized Lens
- + Shutter/Scene-based NUC
- + Automatic/Manual Gain Control
- + Adaptive Contrast Control (CLAHE)
- + Temporal De-Noise
- + Electronic Image Stabilization
- + Multiple color palettes / LUT
- + Picoblade and FFC hardware interfaces
- + Simultaneous analog/digital output
- + 32GB of Onboard Video Sequence / Still Image Storage

EXPORT CLASSIFICATION

- + Please review regulations at www.sierraolympic.com.
ECCN 6A003.b.4.a. Products require a license for export. EU/NATO countries, Australia, S. Korea, Japan, New Zealand, Argentina, and India are eligible for STA license exemption. Customer and end-use documentation required. Re-export is controlled under STA rules.

APPLICATIONS:

- + Systems integrators
- + Pipe racks
- + Gathering and Transmission lines
- + Above and below ground gas pipelines
- + Fuel Gas Line
- + Valves
- + Flanges
- + Connections
- + Seals
- + Vent stacks
- + Compressors
- + Storage Tanks
- and more...**

Call us at (855) 222-1801 or Email at sales@sierraolympic.com for more information.