

VENTUS™ OGI

SMALLEST, LIGHTEST AND LOWEST POWERED OPTICAL GAS
IMAGING CAMERA CORE IN THE MARKET TODAY



SIERRA-OLYMPIC
Technologies Inc.



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

The Ventus™ OGI utilizes a new state-of-the-art 640 x 512, 15µm 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 475 grams with a lens and with dimensions of 146.6 x 70.9 x 73.1 the Ventus™ OGI makes this an easy choice for OEM's and integrators.

The Ventus™ cores are available with a choice of digital and analog inputs and outputs including Camera Link, Gigabit Ethernet, H.264, NTSC/Pal video and RS-232/RS-422 serial camera control. The camera core also has advanced image processing features such as Local Area Processing, -Dynamic Contrast Enhancement, Noise Reduction Filter, Foreground and Background Boost Contrast, automatic gain and level control, 2x, 4X and 8x electronic zoom, multiple color palettes and up to six calibration tables for different scene conditions.



VENTUS™ OGI

SMALLEST, LIGHTEST AND LOWEST POWERED OPTICAL GAS
IMAGING CAMERA CORE IN THE MARKET TODAY



SIERRA-OLYMPIC
Technologies Inc.

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
- + LNG Terminals
- + Flare Stack Monitoring of burned and unspent gas
- + Generators
- + Tank Farms
- + Drilling and Production Wells
- + Booster/ Pump Stations
- + First responders in emergencies after major disasters
- + Storage/container areas on barges and ships
- + Terminals
- + Engines
- + Railroad Tank Cars

BENEFITS OF USING AN OPTICAL GAS IMAGING CAMERA INCLUDE

- + Safely spot Volatile Organic Compound (VOC) leaks
- + Minimize emissions
- + Improve process safety, (reduce potential for fires or explosions)
- + Increase productivity
- + Improve planned or scheduled maintenance repairs
- + Ensure air quality
- + Scan large areas quickly, efficiently at a reasonable cost
- + Reduction of “unaccounted” gas
- + Meet regulatory requirements
- + Reduce regulatory fines
- + Easy to interpret

OTHER 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.