

Ventus OGI

MWIR OPTICAL GAS IMAGING CAMERA CORE

An integration-ready 640 × 512 MWIR camera core that detects and visualizes hydrocarbon gases, including methane and propane, for leak detection and emissions surveys.


640×512

ARRAY FORMAT

15 μm

PIXEL PITCH

30 Hz

FRAME RATE

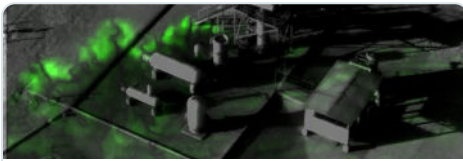
<50 MK

NETD

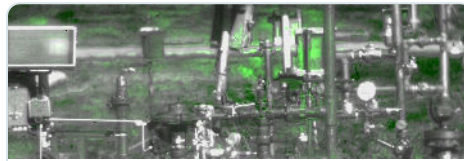
F/1.5

OPTIC

Imaging Samples



GAS ENHANCEMENT MODE



WIDE-AREA SURVEY



MWIR THERMAL IMAGING

Detector

Detector Type	High operating temp MWIR
Array Format	640 × 512
Pixel Pitch	15 Micron
Spectral Response	MWIR
Frame Rate	30 Hz
NETD	<50 mK

Environmental

Power Dissipation	6W Typical 12W Peak
Operating Temperature	-35°C to +65°C
Certifications	25 mm: OOOa Certified ≤60 g/hr

Applications

- Visualize hydrocarbon gases
- Quickly survey large areas
- Aerial / ground systems
- Around-the-clock surveillance
- Designed for integrators
- Image from a safe distance
- Manned / unmanned systems
- Meet EPA requirements, reduce fines



ON A WISPR AIRCRAFT

System

Analog Video Output	NTSC/PAL
Digital Video Output	Uncorrected 14-bit CameraLink®
Digital Zoom/Pan	2x, 4x, 8x
Camera Control / Command	Ethernet; Serial (RS-422/RS-232)
Input Voltage	12VDC

Lens Models



25 & 50 MM MODELS

F#	1.5
FOV or H/FOV	25 mm: 21.7° 50 mm: 11°
Size (L×W×H)	25: 147×71×73 mm 50: 138×71×77 mm
Weight	25 mm: 541g 50 mm: 570g
Focus	Thread focus

Overview

Built around a long-life HOT MWIR detector, a miniature Stirling cooler, and an f/1.5 cold shield for a compact, energy-efficient camera core.

IMAGE PROCESSING

Gas Enhancement Mode, dynamic contrast enhancement, noise reduction, AGC, 2x/4x/8x zoom, and multiple palettes.

REFERENCE

Specifications based on the Sierra-Olympia Ventus OGI datasheet (v. 8.02.2023). Export classification: Dual Use.