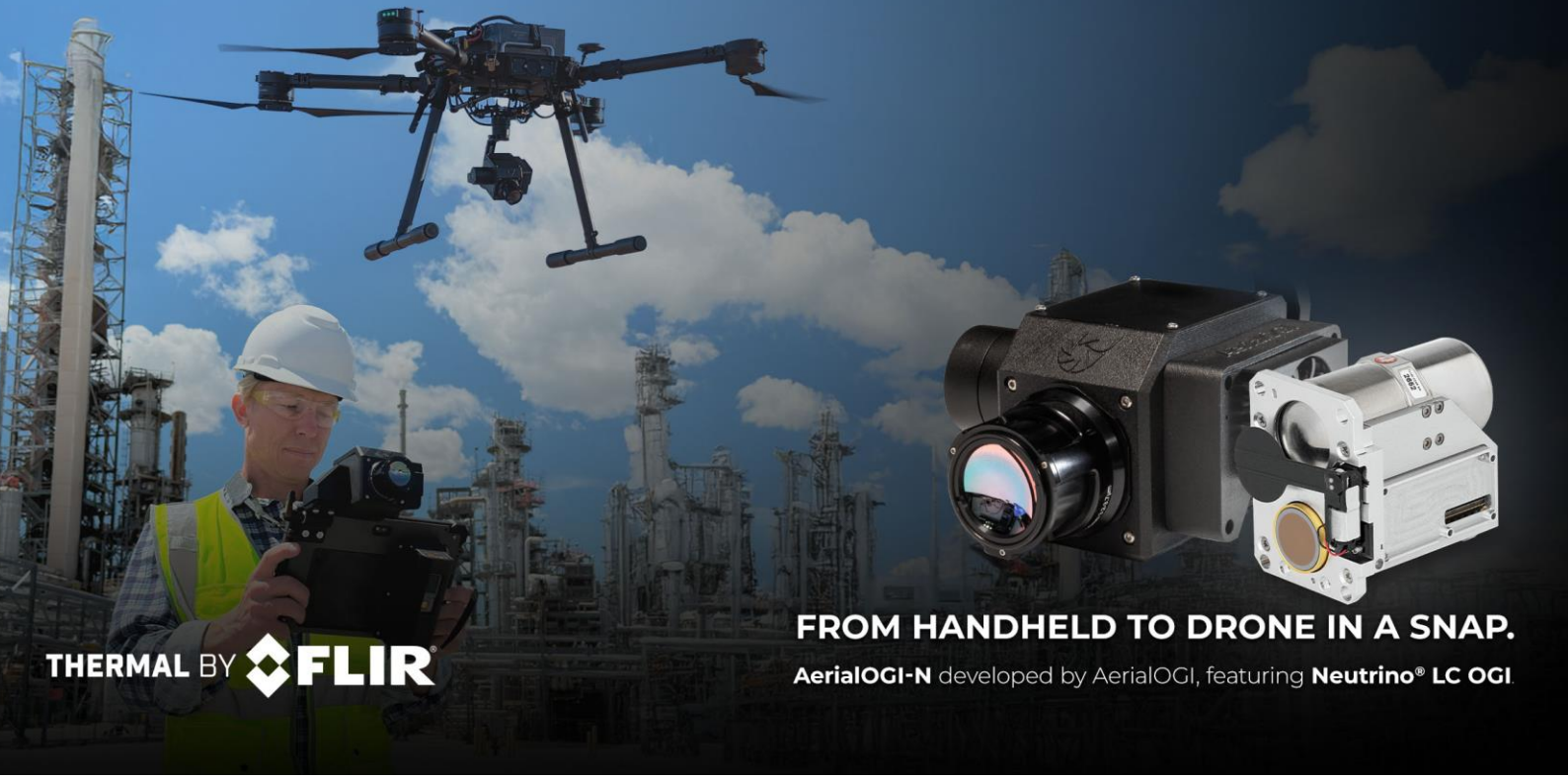



# AerialOGI-N

## Next-Generation Gas Imaging System

The industry's first OGI camera module to offer a seamless one-click connection to both handheld and drone-based gas detection platforms.

Featuring the Teledyne FLIR OEM Neutrino® LC OGI camera core, AerialOGI-N provides 640x512 VGA-resolution MWIR images and is easily integrated into various solutions to detect, measure, and visualize gas emissions. Designed to meet EPA performance requirements, the narrow 3.3 µm infrared (IR) spectral band accurately detects hydrocarbons, including methane, propane, butane, and other greenhouse gases and volatile organic compounds (VOCs).

The AerialOGI-N can be operated in VGA mode to maximize scene awareness or Bin mode to improve sensitivity to an industry-leading <20 mK. Backed by a standard two-year warranty and a professional technical support team for integration assistance, the AerialOGI-N is the lowest-risk and highest-performance OEM camera module for aerial methane monitoring and other gas imaging solutions today.

## Key Features

- AerialOGI-N can detect and quantify more than 25 harmful greenhouse gases in real time, including methane and other VOCs.
- Meet the latest USA EPA emissions standards concerning Title 40, CFR 60 Subparts OOOOa, OOOOb, OOOOc, and Appendix K.
- Supported for seven industrial uncrewed platforms.
- OGI drone camera detaches and can be used in our Handheld adapter.
- One button leaks event capture.
- NDAA Compliant.

## SPECIFICATIONS

| | |
|---|---|
| Sensor Technology | : HOT MWIR |
| Sensor Size | : 640 x 512, 15 µm pitch |
| Spectral Band | : 3.2 – 3.4 µm |
| Sensitivity (NEdT) | : <35 mK (50% well fill at TBB=25 °C ) |
| Frame Rate Options | : 60 Hz maximum, 30 Hz nominal |
| Time to Image | : <4.5 min 23 °C ambient |
| Shutter | : with integral shutter |
| Weight | : The AerialOGI-N, with Pixy U for open source, and laser range finder is 1220 grams. The AerialOGI-N, with Xport for DJI, and laser range finder is 1120 grams. |

**Image Processing & Display Controls**

| | |
|---|---|
| Image Optimization/AGC | : Gas Detection Mode (GDM) |
| Invert/Revert | : Yes |

**Environmental**

| | |
|---|---|
| Operational Temperature | : -40 °C to +71 °C (-40 °F to +160 °F) |
| Operational Altitude | : ~12 km (40,000 ft) |
| Humidity | : Non-condensing between 5% – 95% |
| Mounting | : AerialOGI Payload to any gimbal |
| Certification | : Meets OOOOa,b,c & Appendix K (<= 60 g/hr) |

**Detectable Gasses**

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**

- GPS Tagging
- Leak Event Capture with one button press
- Actionable Data can be passed into your LDAR software
- Onsite training available
- Hardware and software enhanceable
- OGI drone camera detaches and can be used in our handheld adapter
- OGI video feed with RGB video feed
- Laser rangefinder

**Supported Aircraft**

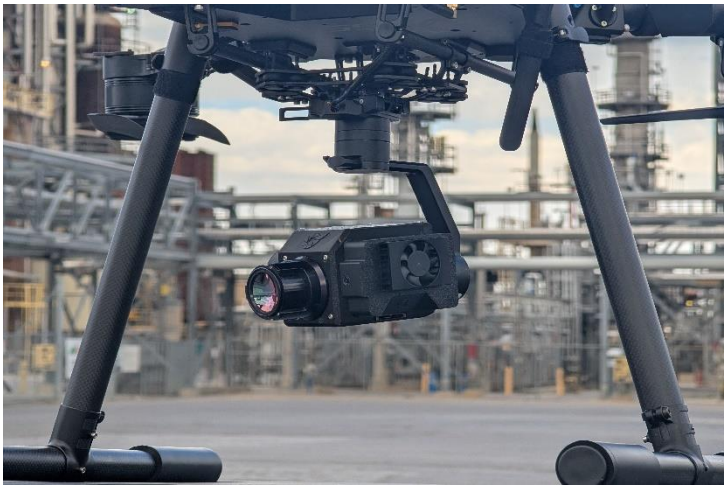
| | |
|---|---|
| Sony Airpeak | : 19 minutes |
| DJI Matrice 350 | : 25 minutes |
| Arcsky X55(hybrid mode) | : 120 minutes |
| Vision Aerial | : 24 minutes |
| Skyfront Perimeter 8 | : 120 minutes |
| FreeFly Astro | : 21 minutes |
| Cellen H2 | : 120 minutes |

**Supported Software**

- AerialOGI Reporting Tool: AerialOGI.com/software
- GPS Tagging
- LDAR tracking software compliant

**Export Classification**

EAR 6A003.b.4.a

**Applications**

Pipe racks, Gathering and Transmission Lines, Above and below gas pipelines, Fuel Gas Line, Valves, Flanges, Connections, Seals, Vent stacks, Compressors, Storage Tanks, Landfills and more…