

Caroline Y

Uncooled QOGI Handheld
Camera for Methane



The SENSIA Caroline Y is the Quantitative Optical Gas Imaging (QOGI) handheld camera model for the detection of methane (CH₄) and SO₂ leaks. It integrates a spectrally optimized high-resolution uncooled detector that can perform gas detection and quantification for a fraction of the cost of cooled technology.

The Intelligent Solution for Pre-Compliance Check Screening & Marked Leak Repair Verification

Detecting methane leaks efficiently and cost-effectively is a constant challenge for operators. The Caroline Y Uncooled QOGI Handheld Camera addresses this need by providing a reliable solution for pre-screening leaks before compliance checks and enabling repair technicians to quickly identify and confirm repairs on-site. This proactive approach helps prevent costly delays and reduces the need for repeated regulatory inspections, improving overall operational efficiency.

FEATURES

- Quantification on board
- ATEX Zone II Certified
- Video and Picture Outputs
- Digital Zoom
- Multiple Gas Detection Modes
- Integrated Reporting Software
- Wireless Data Export
- 3 x 3-hour batteries w/ Dual Charger



Wireless
Connectivity



Rugged &
Ergonomic Design



Bright
Touchscreen



Lightweight
Design



Leak Rate
Quantification



Effortless
Reporting



ATEX
Certification



EPA OOOOa
Compliant



Visible & IR
Camera

APPLICATIONS

- Oil Refineries
- Offshore Platforms
- Compressor Stations
- LNG Shipping Terminals
- Natural Gas Wellheads & Processing Plants
- Biogas & Power Generation Plants
- OGMP 2.0

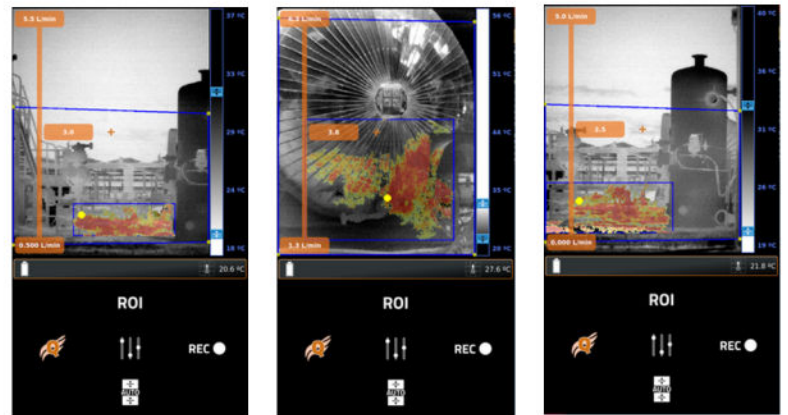


SPECIFICATIONS

| | |
|-----------------------|--|
| FPA | Uncooled 640 x 480 px |
| Pixel Pitch | 17 µm |
| NETD | <22 mK @ +30 C |
| Spectral Region | 7 to 9,5 |
| Lenses | 20 mm 35 mm |
| Accuracy | ± 1°C (from 10° C to 60° C) |
| Memory Storage | SD card up to 256 GB |
| Autonomy | 3 x 3 hr |
| Display | TFT LCD panel 5" HD |
| Weight | 2,1 kg |
| Size | 187 x 165 x 68 mm |
| Operating Temp. Range | -20° C to +50° C |
| Storage Temp. Range | -40° C to +71° C |
| Certifications | IP65 (EN 60529:2018) EMC (EN 61326:2013) ATEX Zone II (EN 60079:2013) II 3G Ex ec IIC T4 Gc |

GASES DETECTED

| | |
|----------------------|-------|
| Methane | R13 |
| Sulfur Dioxide | R13B1 |
| Acetic Acid | R123 |
| Acrolein | R125 |
| Acrylic Acid | R134A |
| Ethyl Hexyl Acrylate | R417A |
| Nitrous Oxide | R422A |
| Phenol | R508A |
| R12 | |



The Encino Advantage

SENSIA's handheld Quantitative Optical Gas Imaging (QOGI) cameras have been specifically designed to detect fugitive emissions in LDAR campaigns. These QOGI cameras are spectrally tuned to aim for different target gases, and as with the fixed cameras, they are divided in cooled and uncooled solutions.



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Sensia Solutions S.L., is an Encino Environmental Company specializing in AI-Powered infrared imaging technology tailored for industrial, environmental, safety and security applications.