

4-year
warranty*

Optical gas imaging

Opgal EyeCGas® Multi Hand-held OGI camera for gas leak detection and quantification



Certified intrinsically safe



Key features



Gas leak detection

Quick detection of methane, CO₂ and over 400 VOCs



Thermographic imaging

Temperature measurements capabilities and color pallets for better versatility



Gas quantification

Built-in or remotely operated quantification via EyeCSite software and other 3rd party devices



Wireless connectivity

Built-in Wi-Fi™, GPS, hotspot, and Bluetooth® capabilities



Multi spectral OGI

The only OGI camera with replaceable filters enabling improved Methane/VOC and CO₂ detection with the same camera

Key benefits



Meets regulatory compliance

Complies with the EPA's OOOO'a/b/c regulations, with the broadest Appendix K envelope of performance



Intrinsically safe

IECEx intrinsically safe Zone II, ANSI, CSA Class I and Class II div.2



LDAR-Ready capabilities

Integrates with various software and analyzers



Rugged and sealed

Specially designed for detecting gas leaks in the harsh conditions of the oil and gas industry



Free firmware upgrades

Receive camera upgrades and improvements free of charge

Optical gas imaging solutions



Transmission pipes

Natural gas must travel a great distance from the original well to reach its point of use. The transportation system for natural gas consists of a complex network of pipelines, all of which have to be regularly monitored and checked to ensure against leaks and faults.



Off-Shore oil rigs

Off-shore drilling rigs deal with volatile substances under extreme pressure and in a hostile environment. This entails many risks, sometimes ending in tragedy. It is crucial to monitor and reach even the most remote station regularly, to catch potential leaks before they escalate.



LNG terminals

These highly volatile sites use various equipment for handling and transporting liquefied natural gas and liquefaction, re-gasification, processing, storage, and more. Early detection can prevent major disasters and ensure proper maintenance.



Oil refineries

Gas leak detection cameras enable the quick and safe detection and visualization of fugitive emissions leaks, allowing quick detection and repair of leaks, thus helping prevent major damage and avoid fines.

Property of:

¹ American National Standards Institute

² Temasek

³ MET Labs

⁴ ATEX

⁵ International Electrotechnical Commission

Technical specifications

IR resolution	320 x 240 pixels
Focus	Manual Focus
Detector pitch	30 µm
Gas sensitivity	NECL @ delta T =10°C: Methane – 9 ppm Propane – 2.8 ppm Butane – 2.3 ppm Minimum Leak Rate @ delta T =10°C: Methane – 0.07 g/h Propane – 0.05 g/h Butane – 0.05 g/h Minimum Laboratory Leak Rate @ delta T ≤2°C: Methane – 0.35 g/h Propane – 0.26 g/h Butane – 0.29 g/h

Thermal sensitivity/ NETD	<10 mK at 30°C (86°F)
Hazardous location compliance	CSA C22.2 No. 213-M1987, non-incentive electrical equipment for use in Class I, Division 2, ANSI/ISA-12.12.01 – Class I and II, Division 2, and Class III, ATEX. Intrinsically safe for Zone 2 ratings as: Ex II 3 GD; Ex ic nA nC IIC T6 Gc; Ex ic tc IIIC T85°C DC

Gas leak detection capabilities	With spectral filter of 3.2 Mm to 3.4 Mm for VOCs gases. Detection: 400+ compounds such as: methane, acetic acid, benzene, butadiene, butene, butane, dimethyl-benzene, ethane, ethylene, ethyl benzene, ethylene oxide, hexane, heptane, isobutylene, isopropyl alcohol, isoprene, methanol, MEK methyl ethyl ketone, octane, pentene, propane, propanal.
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Detector and optical data

Detector type	Focal plane array (FPA), cooled MCT
Spectral range	3.1 µm to 4.4 µm
Optical filters	Std. 3.2-3.5 µm; Long range 3.3-3.6 µm; CO ₂ 4.1-4.4 µm
Sensor cooling	Stirling microcooler
Digital image enhancement	High sensitivity mode (HSM), noise reduction filter
Available lenses	18° (30 mm); 7.5° (75 mm)
F-number	1.1

Image presentation

Display	3.5" (10'equivalent using glare shield), 640 x 480 pixel, LCD
Image presentation modes	IR image, visual image, normal, enhanced and thermography
Color palettes	6 color palettes (rainbow, iron, ISO red, ISO green, grey scale and vivid)
Zoom	x2, x4, x8 and x16 (only for visible camera)

Measurement and analysis

Measurement temperature range	-20°C to 350°C (-4°F to 662°F)
Accuracy	At Least ± 1 °C (0 – 100 °C), ± 2% (> 100 °C), ± 2°C (-20 – 0 °C)
Gas emission quantification	Built-in real-time and offline Image processing VOC gas quantification for desktop or handheld application (offline/online operation)

Accessories and apps

Head up display	Seamless integration including voice commands with Realware® head up display
Mobile app	Android™ 10/iOS 14 and up

* Batteries – 1 year warranty

** IR Detector & Cooler – 2 years warranty.

Learn more at thermofisher.com/eyecgas

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Communication interface and data storage

GPS	Included, can be added to any still or video recording
Storage media	Up to 20 hours and more of video storage over a 64 GB solid state memory
Image file formats	JPG format (on available modes)
Communication interfaces	USB: Data transfer, video streaming and video images file transfer. Wi-Fi: 2.4 GHz for video streaming and file transfer. Bluetooth: Bluetooth 4.2 with other devices: RMLD, TVA2020, LDAR software etc. GPS: Built in or external
Video out	Digital video recorder build-in generates a .ts format video on all modes.

Video recording and streaming

IR or visual video	Digital video recorder build-in generates a .ts format video on all
Radiometric IR video streaming	Over Wi-Fi

Environmental and certifications

Operating temperature range	-20°C to 50°C (-4°F to 122°F)
Storage temperature range	-40°C to 70°C (-40°F to 158°F)
Encapsulation	IP65 (Intrinsically safe)
Drop	ASTM-D 4169-06 Schedule A
Vibration	ASTM-D 4169-08 Schedule F Test method D999
HALT	Max temp: 55°C, Min temp: -20°C
Safety	EN60950-1:2006

Additional information

Battery type	Rechargeable Li-ion battery; 7.4 V, charger included
Battery operating time	>4.5 hours continuous operation
Battery charging time	3 hours to 95% capacity, charging status indicated by LEDs
Camera size	9" x 4.3" x 5.1" (230 x 110 x 130) mm
Camera weight	2.6 kg (5.9 lb)
Mounting interfaces	UNC ¼"-20
Warranty	4 years (detector and cooler – 2 years; batteries 1 year)

Box contents

Packaging	Infrared camera with lens, batteries (2), battery charger, USB cable, neck strap, glare shield, carrying case, cleaning kit.
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The best OGI camera just got better

Relevant applications



The EyeCGas Multi OGI camera ensures quick detection of methane, CO, CO₂, and over 400 Volatile Organic Compounds (VOCs) leaks—making it the ideal tool for leak detection solutions.

It enables quantification based on VOC emissions image processing via dedicated software, whether connected to a desktop-based or field-worthy device.