EyeCGas® Multi

Hand-Held Optical Gas Imaging Camera for Gas Leak Detection and Quantification

4 NOW WITH A YEAR WARRANTY*

ANSI | element | MET | ATEX | IECEx

Opgal's EyeCGas Multi is a ruggedized, intrinsically safe and the world's most sensitive OGI camera. Built to withstand harsh industry conditions while ensuring safety, this OGI camera quickly detects Methane, CO2 and over 400 Volatile Organic Compounds (VOC's). Making it your ideal leak detection solution.

EyeCGas Multi enables detection and quantification (built in or via EyeCSIte QOGI dedicated software). It is the only OGI camera with a patent multi Spectral interchangeable filters for improved detection. Especially in humid and long range conditions.

Stream your inspection in real time, or share your results using the dedicated EyeCGas App.

Receive free software upgrades, which are based on customer feedback, and rest assure that your investment is guaranteed with our exclusive 4-year warranty.

STREAMING
Real-time video streaming and wireless images/videos sharing with the official EyeCGas App.

KEY FEATURES

- **Gas Leak Detection**
  Quick detection of methane, CO2 and over 400 VOC's.

- **Thermographic Imaging**
  Temperature measurements capabilities and color pallets for better versatility.

- **Wireless Connectivity**
  Built-in Wi-Fi, GPS, hotspot and Bluetooth capabilities.

- **Meets Regulatory Compliance**
  Complies with the EPA's Quad Oa (OOOOa) regulations. With the broadest Appendix K envelope of performance.

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

- **LDAR-Ready Capabilities**
  Integrates with various softwares and analyzers.

- **Free Firmware Upgrades**
  Receive camera upgardes and improvements free of charge.

- **Intrinsically Safe**
  IECEX intrinsically safe Zone II, ANSI, CSA Class I & Class II div.2.

- **Rugged & Sealed**
  Especially designed for detecting gas leaks in the harsh conditions of the oil and gas industry.

- **Multi Spectral OGI**
  The only OGI camera with replaceable filters enabling improved Methane/VOC &CO2 detection with the same camera.

SPECIFICATIONS

IR Resolution	320 x 240 pixels
Focus	Manual Focus
Detector Pitch	30 μm
Thermal Sensitivity/ NETD	<10 mK at 30°C (86°F)
Gas Sensitivity	9.0 ppm m, 0.07 g/h (ΔT =10 °C , 1 m/s wind speed, distance 2m (Methane)) Appendix K sensitivity 0.15 g/h (ΔT 5°C 1 m/s wind speed distance 1m (Methane))
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 3.2μM TO 3.4μM 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.

Detector and Optical Data

Detector Type	Focal plane array (FPA), cooled MCT
Spectral Range	3.1 μm to 4.4 μm
Replaceable filters	Std. 3.2-3.5 μm; Long range 3.3-3.6 μm; CO2 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'equivlent using glare shield), 640 × 480 pixel, LCD
Image Presentation Modes	IR image, visual image, Normal, Enhanced & 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 & 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 & Apps

Head up display	Seamless integration including voice commands with Realware® head up display
Mobile APP	Android 10 /IOS 14 and up

Communication interface & 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 64GB 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 Wifi

Environmental & 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 & 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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