



EyeCGas[®] Multi

Hand Held Optical Gas Imaging Camera

For Methane, Hydrocarbons, more than 400 VOCs and CO₂

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. It is the only OGI camera with a patent multi spectral interchangeable filters for improved detection. Especially in humid and long range conditions. Live stream your inspection in real time, to anyone in the world using the dedicated Opgal Connect 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.



OPGAL CONNECT APP



Multi-Spectral Filters

Three replaceable filters for Methane, VOC's, heavier alkanes and for CO₂. All in the same camera

Official Opgal Connect App

Complete mobile/tablet control of your OGI camera.

Built In Quantification

Easily measure concentration as well as mass flow of emissions in real time.

Real Time Live Remote Streaming

Share your inspection live and in real time to anyone in the world.

Better Safety

Intrinsically Safe, designed explicitly for the Oil and Gas industry's harsh environments.

4 year warranty

Rest assure your investment in guaranteed with the longest warrantee in the market.

Free firmware updates

Receive camera feature upgrades and improvements regularly and free of charge.

EPA / EU / OGMP 2.0 Compliant

Meets U.S. and EU methane and VOC detection requirements. Fully supporting OGMP 2.0.



SPECIFICATIONS

IR Resolution	320 x 240 pixels
Focus	Manual Focus
Detector Pitch	30 µm
Gas Sensitivity	NECL @ delta T =10°C: Methane- 9 ppm m Propane- 2.8 ppm m Butane- 2.3 ppm m 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 3.2µm 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
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 × 480 pixel, Transflective 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 250°C (-4°F to 482°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 12/iOS 14 and up
Communication interface & Data Storage	
GPS	Included, can be added to any still or video recording + GPS logger
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 MP4 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
Drop	ASTM-D 4169-06 Schedule A
HALT	Max temp: 55°C, Min temp: -20°C
Safety	EN60950-1:2006
Additional Information	
Battery Type	Rechargeable Li-ion battery; 11.1 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), dual battery charger Charger, USB Cable, Neck strap, Glare Shield, Carrying Case, Cleaning Kit.

