

EyeCGas Multi

The Most Sensitive Optical Gas Imaging Camera

Hand-Held Gas Leak Detection and Quantification



The EyeCGas Multi is a ruggedised, intrinsically safe camera and the world's most sensitive optical gas imaging solution. Built to withstand harsh industry conditions while keeping safety front of mind, it detects methane, CO2 and over 400 volatile organic compounds, making it your ideal leak detection solution. EyeCGas Multi enables both detection and quantification.

It is the only OGI camera with a patented multi-spectral interchangeable filter system for improved detection, particularly in humid or long-range conditions. Free software upgrades, based on customer feedback, come as standard, and the investment is backed by an exclusive 4-year warranty.

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

Key Features

Gas Leak Detection
Quick detection of methane, CO2 and over 400 VOCs.

Gas Quantification
Built-in quantification, or remote quantification via EyeCSite software and other third-party devices

Multi Spectral OGI
The only OGI camera with replaceable filters, enabling improved methane, VOC and CO2 detection from the same camera.

Thermographic Imaging
Temperature measurements capabilities and colour palettes for better versatility.

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

LDAR- Ready Capabilities
Integrates with various softwares and analysers.

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

Intrinsically Safe
IECEx intrinsically safe for Zone II, plus ANSI and CSA Class I and Class II div.2

Free Firmware Upgrades
Receive camera upgrades and improvements free of charge.

Rugged & Sealed
Purpose-built for detecting gas leaks in harsh conditions.

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, 2m distance, (methane)) Appendix K sensitivity 0.15 g/h (ΔT 5°C, 1 m/s wind, 1m distance, (methane))
Hazardous Location Compliance	CSA C22.2 No. 213-M1987, Non-incentive Electrical Equipment for Use Class I & 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	3.2 to 3.4 µm spectral filter for VOC detection, 400+ compounds including Methane, Acetic Acid, Benzene, Butadiene, Butene, Butane, Dimethyl-Benzene, Ethane, Ethylene, Ethyl Benzene, Ethylene Oxide, Hexane, Heptane, Isobutylene, Isopropyl Alcohol, Isoprene, Methanol, MEK, Octane, Pentene, Propane, Propanal
Detector and Optical Data	
Detector Type	Focal plane array (FPA), cooled MCT
Spectral Range	3.1 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° (30mm), 7.5° (75mm)
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
Colour Palettes	6 palettes: rainbow, iron, ISO red, ISO green, grey scale, vivid
Zoom	x2, x4, x8, x16 (visible camera only)
Measurement & Analysis	
Measurement Temperature Range	-20°C to 350°C (-4°F to 662°F)
Accuracy	At least ±1°C (0 to 100°C), ±2% (> 100°C), ±2°C (-20 to 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 modes.
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	Infrared camera with lens, Batteries (2), Battery Charger, USB Cable, Neck strap, Glare Shield, Carrying Case, Cleaning Kit.