

EyeCGas[®] CO

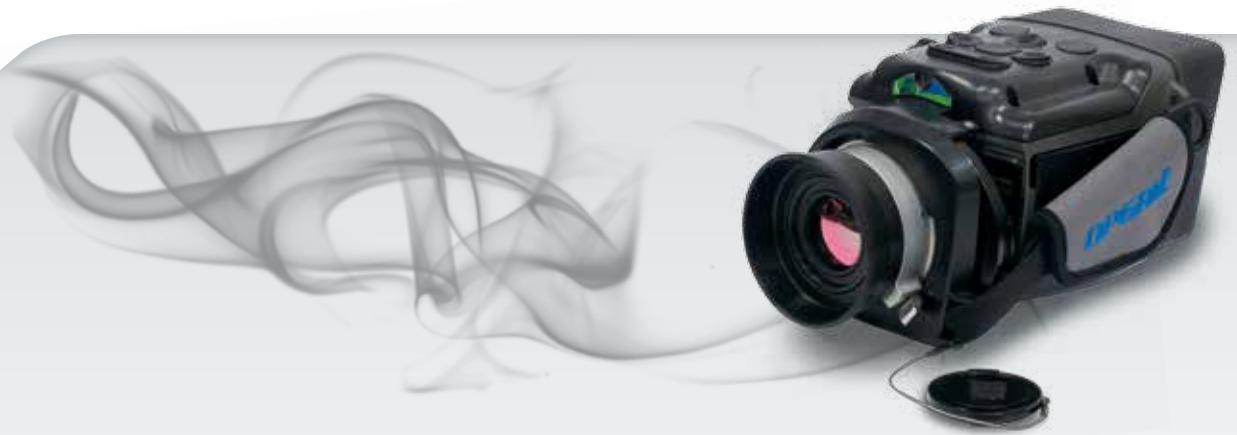
OPTICAL GAS IMAGING CAMERA



OPGAL²
Beyond the Visible



EyeCGas® CO is a handheld OGI camera for CO gas leak detection. With this camera you can safely and remotely detect and locate carbon monoxide as well as other harmful gas emissions. Whether these toxic gases are part of the manufacturing process, or a byproduct of the production line, EyeCGas® CO helps increase safety and protect the environment.



Visual Image



Normal Mode

Leak from a power generator valve



Enhanced Mode

See even more in Enhanced Mode

EyeCGas® CO

Designed for Steel, Chemical and Power Generation Industries:

- **Effective tool** - Allows the reduction of emissions by detecting CO gas in the process for further chemical and industrial uses.
- **High sensitivity** - detects very small leaks from various gases in chemical processes keeping operational costs low.
- **Certified for use in hazardous environments** - Class 1, Div. 2, ATEX II.
- **Repair confirmation** - Gives visual verification of completed repairs so operations can be safely resumed.
- **Intelligently designed** - Provides more than 10 hours of visual and IR video with audio recording on the same file.
- **Snapshot feature** - For every inspection session, a video and a JPEG snapshot is automatically created.
- **Large color LCD screen** - With intuitive user interface.
- **IP65, rugged and durable** - Designed for use in the field, water and dust resistant.



High sensitivity to a spectrum invisible to the human eye makes EyeCGas® CO a critical Optical Gas Imaging tool for fugitive emissions detection and leak repair verification.

Instantly visualize the exact location of CO leaks, even at a distance.



Specialized

EyeCGas® CO is an infrared camera specially designed for high sensitivity CO detection for Steel, Chemical and Power Generation market requirements.



Field productivity

EyeCGas® CO allows for routine and on-demand inspections in the steel manufacturing operations and other industries where CO emissions need to be closely monitored. EyeCGas® CO helps you detect and repair toxic gas leaks inside the facility, while maintaining safety.



Powerful but simple

The EyeCGas® CO allows for fast inspection of vast areas with a simple and intuitive user interface.



No more guesswork

The EyeCGas® CO includes a large LCD display and a digital CCD camera for fast recognition of the components being inspected or leaking.



Safety

- UL1604 - Electrical Equipment for Use in Class I & II, Division 2, & Class III (Classified) Locations.
- CSA C22.2 No. 213-M1987 - Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations.
- ANSI/ISA-12.12.01 - Non-incendive Electrical Equipment for Use in Class I & II, Division 2 & Class III Hazardous (Classified) Locations.
- ATEX II 3G Ex nL IIC T6.




Opgal®

Seeing beyond the visible for a clean global environment

Opgal Optronics Ltd. is a leading global provider of innovative infrared thermal imaging systems and advanced vision and surveillance solutions. Using state-of-the-art thermal and active-imaging technologies, Opgal® leverages advanced electro-optics and image processing expertise to create high performance, versatile visualization hardware and software products. The EyeCGas® CO camera brings Opgal's® cutting edge technology to the oil & gas, utilities, nuclear energy, and steel markets.

EyeCGas® CO - Optical Gas Imaging Camera - Specifications

Imaging Performance	
Thermal Imager	
Thermal Sensitivity	< 12mK@ 25°C
F#	1.1
Field Of View	18°x13° with 30mm lens
Focus Near	< 0.5m
Focusing	Manual
Digital Zoom	x2, x4
Digital Video Camera	
Embedded Digital Camera	VGA, Fixed Focus, for situational awareness
Detector	
Type	Cooled High Sensitivity, 320 x 240 pixels
Spectral Filter	4.5µm to 4.7µm
Spectral Range	3µm to 5µm
Power Input	
Voltage	12 VDC
Power Consumption	14.4 W
Battery Life	4 Hours Continuous
Physical Characteristics	
Weight (with battery and lens)	2.6kg (5.7lbs)
Color	Grey and Black
Size in (LxHxW)	9" x 4.3" x 5.1" (230mm x 110mm x 130mm)
Interface	Tripod Mounting UNC 1/4", Rotation Safe
Display	
Display Unit	3.5" Color LCD 640 x 480
Environmental Conditions	
Operating Temperature Range	-20°C to +50°C
Storage Temperature Range	-40°C to +70°C
Temperature and Humidity	IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH
EMC/ EMI	FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Emissions EN 610000-6-2 : 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2 : 2005 class A - Radiated Immunity to RFE EN 610000-6-2 : 2005 class A - Radiated Immunity to Power Frequency Magnetic Field
Vibration	2.4 GRMS Random Vibration
Water and Dust Protection	IP65 - Blowing Dust Test IP65 - Jetting Water
HALT - High Accelerated Life Test	Vibration Level: Max Temp: 55°C, Min Temp: -20°C
Safety	EN60950-1:2006
Safety 	UL1604, Electrical Equipment for Use in Class I and II, Division 2, and Class III (Classified) Locations. CSA C22.2 No. 213-M1987, Non Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations. ANSI/ISA-12.12.01 - Non-incendive Electrical Equipment for Use in Class I and II, Division 2, and Class III Hazardous (Classified) Locations. 2011 edition. ATEX II 3G Ex nL IIC T6
Environmental Conditions when Packed in Carrying Case	
Free Fall (Drop) Test	ASTM-D 4169-06 Schedule A
Loose Cargo Vibration Test	ASTM-D 4169-08 Schedule F Test method D999
Vibration	ASTM-D 4169-08 Schedule F Test method D999
Gas Leak Detection Performance	
Operation Features	Auto Mode and Enhanced Mode including Background Selection for standard and very hot background temperatures.
Gases Detected	Carbon monoxide, Acetonitrile, Acetyl cyanide, Arsine, Bromine isocyanate, Butyl isocyanide, Chlorine isocyanate, Chlorodimethylsilane, Cyanogen bromide, Dichloromethylsilane, Ethenone, Ethyl thiocyanate, Germane, Hexyl isocyanide, Ketene, Methyl thiocyanate, Nitrous oxide, Silane.
Digital Video and Audio Recording	
Video, Snapshot, and Audio Recording	Digital recorder build-in with connection to PC via USB 2.
Snapshot Capabilities	On video clip download a JPG picture will be created from the first frame of the movie for further documentation.
Other Features	
Connectivity	Bluetooth, USB 2
GPS	Energy efficient, external device, bluetooth, accuracy <3m, 66 satellites, sensitivity up to - 165bBm
Accessories	
Supplied	Battery Set (3), Tri Battery Charger, USB Cable, Headset, Neck Strap, Glare Shield, Carrying Case
Optional	75mm F#1.2 Lens - FOV 7.3° x 5.5°- P/N 8G9T7500A



www.eyecgas.com | www.opgal.com

For additional information, please contact us at: info@opgal.com

All specifications are subject to change without notice.

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PABX: (11) 4419-3192 OU CONTATO@INFRAREDMANUTENCAO.COM.BR

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