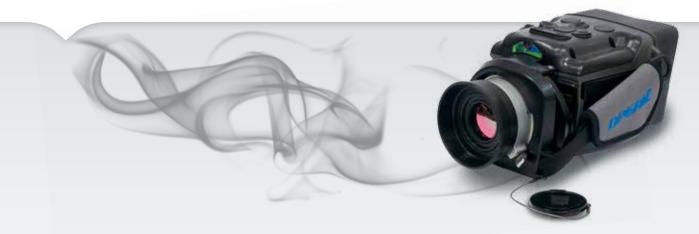
EyeCGas®CO2 OPTICAL GAS IMAGING CAMERA





With the EyeCGas® CO₂ OGI camera, you can safely and easily locate very small concentrations of CO₂ leaks, whether as a tracer gas used to find leaks during plant and Enhanced Oil Recovery (EOR) machinery inspections, or to verify completed repairs. Save time with fast and accurate detection, and cut operating downtime to a minimum while avoiding fines and lost profits.





Visual Image

EyeCGas® CO₂ Designed for the oil & gas, utilities, nuclear energy, and steel industries:

- Instant ROI Can cut downtime from 3+ days to 1 day from plant shutdown to final leak repair verification.
- High sensitivity detector Can pinpoint tiny CO₂ tracer gas leaks in Hydrogen, Nitrogen, and dry air at less than 3% concentration in generation, processing, and manufacturing operations.
- 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 up to 6 hours of visual and IR video with audio recording on the same file.
- Snapshot feature When downloading the files from the camera, Artsoft will
 create a snapshot from the first frame of each video for easy reference and
 documentation.
- Large color LCD screen With intuitive user interface.
- IP65, rugged and durable Designed for use in the field.



Normal Mode Leak from a power generator valve



Enhanced ModeSee even more in Enhanced Mode



High sensitivity to a spectrum invisible to the human eye makes EyeCGas[®] CO₂ a critical Optical Gas Imaging tool for fugitive emissions detection and leak repair verification.

Instantly visualize the exact location of ${\rm CO_2}$ leaks, even at a distance.



Specialized

EyeCGas® CO₂ is an infrared camera specially designed for high sensitivity CO₂ detection for oil & gas, utilities, nuclear energy, and steel market requirements.



Field productivity

Ruggedized and hazardous environment certified, the EyeCGas® CO₂ broadens opportunities for use within the facility limits while maintaining safety, without the need of a "hot work" permit.



Powerful but simple

The EyeCGas® CO₂ allows for fast inspection of vast areas with a simple and intuitive user interface.



No more guesswork

The EyeCGas® CO₂ 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 Optronic Industries 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® CO₂ camera brings Opgal's® cutting edge technology to the oil & gas, utilities, nuclear energy, and steel markets.

EyeCGas® CO₂ - Optical Gas Imaging Camera - Specifications

Imaging Performance	
Thermal Imager	
Thermal Sensitivity	< 12mK@ 25°C
F#	1.1
Field Of View	18.5° x 13.6° with 30mm lens
Focus Near	< 0.5m
Focusing	Manual
Digital Zoom	x2, x4
Digital Video Camera	
Embedded Digital Camera	VGA, Fixed Focus for Situational Awarness
Detector	
Type	Cooled High Sensitivity, 320 x 240 pixels
Spectral Filter	4.2µm to 4.4µm
Spectral Range	Зµт to 5µт
Power Input	
Voltage	12 VDC
Power Consumption	14.4 W
Battery Life	4 Hours Continuous
Physical Characteristics	
Weight (with battery and lens)	2.5 kg (5.5 lbs)
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 Ex C E ANSI	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 Packe	ed 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.
Gas Detected	CO ₂ at < 3% Concentration Rate
Digital Video and Audio Recording	
Video, Snapshot, and Audio Recording	Digital recorder build-in with connection to PC via USB 2.
Snapshot Capabilities	On every video a snapshot of the first frame will be recorded to a JPG file with identical video name.
Other Features	The state of the s
Connectivity	Bluetooth, USB 2
GPS	Energy efficient, external device, bluetooth, accuracy <3m, 66 satellites, sensitivity up to - 165bBm
Accessories	- 10, 2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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
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