

# EyeCGas<sup>®</sup> 24/7

AUTOMATED CONTINUOUS FUGITIVE EMISSIONS DETECTION SYSTEM



**OPGAL<sup>2</sup>**  
Beyond the Visible



Gas leak detection equipment is vital to keeping your employees, products and environment safe. EyeCGas® 24/7 finds leaks from a safe distance and automatically alerts plant personnel.

## EyeCGas® 24/7

Based on industry requirements, the EyeCGas® 24/7 is the next generation automatic camera for installation in oil & gas facilities, as well as offshore platforms and rigs. This highly reliable system responds to the demands of round-the-clock monitoring. EyeCGas® 24/7 is specially designed for the natural gas, oil and petrochemical industries.



### Automatic Leak Detection

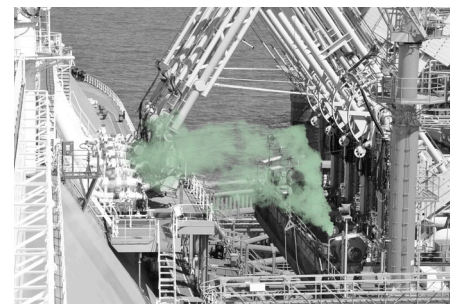
EyeCGas® 24/7 includes a highly sensitive IR camera and an HD color camera for fast recognition of the areas being inspected. The camera allows safe and ongoing monitoring of all areas of the plant, including remote and inaccessible areas. Smart 24/7 system software enables an operator to define multiple Regions of Interest with a simple command for viewing and recording.



Standard Color Image



Detection Mode



Gas Quantification

EyeCGas® 24/7 detects one or more of the following gases:

- Methane
- Ethylene
- 1-Hexane
- Propanal
- 1-Butene
- Styrene
- 1,2-dimethyl-Benzene
- Propylene 1-pentene
- Ethyl Ketone 2-butanone
- Isopropyl alcohol
- MEK Methyl
- 1,3-Butadiene
- Isobutylene
- Isoprene
- Benzene
- Ethyl benzene
- Ethylene oxide
- Hexane
- Methanol
- Propylene oxide
- Propylene
- Ethane
- Octane
- Heptane
- Propane
- Butane
- Pentane
- Toluene
- Acetic acid
- Xylene

High sensitivity to a spectrum invisible to the human eye makes EyeCGas® 24/7 a critical tool in fugitive gas leak detection.



EyeCGas® 24/7 enables fast and automatic alerts via color display and warning notifications.

#### 24/7 Monitoring of Designated Areas

High reliability system for hazardous, explosive and toxic gas leaks makes EyeCGas® 24/7 a critical all year-round monitoring tool.

#### Smooth Integration

EyeCGas® 24/7's Smart 24/7 software provides real-time video feed. The Smart 24/7 enables the control room operators to handle ROI and modes of operation, while connecting to the existing plant software system.

#### Simple and Powerful

EyeCGas® 24/7 allows the inspection of vast areas for gas leaks and can be adjusted to specific user requirements.



#### Why EyeCGas® 24/7 ?

- **Reliable: Extremely low false alarm rate**
- **Rugged: Durable design enables outdoor use all year round**
- **Customized solution: Flexible adaptation for customer needs.**

OPGAL. Seeing beyond the visible for a clean global environment.

Opgal Optronics Industries, a leading global manufacturer, leverages more than 35 years of field-proven thermal imaging experience and excellence in the design and development of IR engines & cameras. The EyeCGas® 24/7 camera brings Opgal's cutting edge technology to the natural gas and petrochemical markets.

# EyeCGas® 24/7 - Gas Imaging Camera - Specifications

Imaging Performance	
Thermal Imager Channel	
Thermal Sensitivity	20mK @ 30°C
Pixel Pitch	17µm
Field of View	12° lens, 18° lens, 31° lens
Focus	Fixed Focus
Accuracy	+/-1°C (from -10°C to +60°C)
Digital Zoom	Continuous up to 8X
Detector	
FPA	640 x 480 pixels
Spectral Range	MWIR, LWIR - solution based
Digital Video Camera	
Color Digital Camera Channel	Full HD
Digital Zoom	Continuous up to x4
Power Input	
Voltage	9VDC - 48VDC
Power Consumption	<3W; PoE
Physical Characteristics	
Weight	5kg with sun shield
Color	Natural silver natural, stainless steel
Size in (L x D)	397mm x 110mm x 330mm without sun shield
Interface	Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe
Environmental Conditions	
Operating Temperature Range	-20°C to +50°C
Storage Temperature Range	-40°C to +71°C
Temperature and Humidity	IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH
Water and Dust Protection	IP66
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	
24/7 Continuous Monitoring	When unattended, the EyeCGas® 24/7 automatically alerts of any danger and recover event video from alarms log.

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