



EyeCGas[®]

Fugitive Emissions Detection Camera



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

Even from a distance, a user will easily see the exact location of a leak.

Field Productivity

Robust, rugged and hazardous environment certified, simplifying and broadening opportunities for use inside the facility limits without the need of a hot work permit.

No More Guesswork

The EyeCGas includes a digital CCD camera for fast recognition of the components being inspected or leaking, and GPS coordinates overlay for location assurance.

Powerful But Simple

The EyeCGas allows inspection of vast areas in a plant with an automated and simple user interface, visualizing the infrared image on a large color LCD.

Specialized

EyeCGas is an infrared camera specially designed for the Petrochemical and Gas & Oil market requirements for gas detection, Smart LDAR and EPA OOOOa compliance.

Intrinsic 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
- ATEX II 3G Ex nL IIC T6



Visual Mode



Normal Mode



Enhanced Mode


Gas leak detection equipment is vital to keeping your employees, environment and product safe. Quickly find methane and volatile organic compound (VOC) leaks. Save time searching for fugitive gas leaks, and feel confident in the knowledge that your search was far more effective than ever before possible.

A design formed by the demands of the industry.

- Specially designed for the natural gas, oil and petrochemical industries, taking into consideration the requirements of the users.
- Very sensitive and detects smaller leaks than the existing optical imagers' portable solutions.
- Certified for use in hazardous environments (Class 1, Div. 2 and ATEX II), allowing inspection of hazardous locations in the plant.
- Implements an internal video and audio recording device.
- Features a large color LCD display for image and text display.
- Rugged and durable by design to be used as a tool in the field.
- Complies with EPA's OOOOa regulation requirements.



EyeCGas - Gas Imaging Camera - Specifications

Imaging Performance	
Thermal Imager	
Thermal Sensitivity	<12mK@ 77°F (25°C)
F #	1.1
Field of View	18° with 30 mm 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 , 320x240 pixels
Spectral Range	3-4µm
Power Input	
Voltage	12 VDC
Power Consumption	14.4 W
Battery Life	4 hours continuous
Physical Characteristics	
Weight (with battery and lens)	5.5 lbs (2.5 kg)
Color	Grey and black
Size (LxHxW)	9" x 4.3" x 5.1" (230 x 110 x 130mm)
Interface	Tripod mounting UNC 1/4", rotation safe
Display	
Display Unit	3.5" Color LCD 640X480
Environmental Conditions	
Operating Temperature Range	- 4°F to 122°F (- 20°C to 50°C)
Storage Temperature Range	- 40°F to 158°F (- 40° to 70°C)
Temperature and Humidity	IEC 60068-2-30 Temp. 77°F / 104°F (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 and Enhanced Modes including Background selection for standard very hot background temperatures.
Includes a spectral filter of 3.2µm to 3.4µm designed for detection of	Ethylene, 1-Hexane, Propanol, Propanal, 1,3-Butadiene, 1-Butene, Methane, Propylene 1-pentene, Styrene, Toluene, Acetic acid, Xylene, 1,2-dimethyl-Benzene, Isobutylene, Isoprene, Benzene, Ethyl benzene, Ethylene oxide, Hexane, Methanol, Propylene oxide, Propylene, Ethane, Octane, Heptane, Isopropyl alcohol, MEK Methyl Ethyl Ketone 2-butanone, Propane, Butane, Pentane
Digital Video and Audio Recording	
Video, Snapshot and Audio Recording	Digital recorder built-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
Others Features	
Connectivity	Bluetooth, USB 2
GPS	Low power, external device, Bluetooth com. to camera, accuracy <3m, 66 satellites, sensitivity up to -165dBm
Supplied Accessories	
	Batteries (3), Tri-Battery Charger, USB Cable, Headset, Neck Strap, Glare Shield, Carrying Case, GPS
OPTIONAL ACCESSORIES	
	75mm f#1.2 Lens - FOV 7.3°x 5.5°- P/N 8G9T7500A

Heath Consultants Incorporated operates under a continual product improvement program and reserves the right to make improvements and/or changes without prior notification.

