

Infrared Type VOC & Combustible Vision Gas Camera (Explosion Proof)

EyeCGas



Feature



Field productivity

Robust, ruggedized and hazardous environment certified, simplifying and broadening opportunities for use inside the facility limits without the need of a hot work permit, allowing video and audio recording while maintaining intrinsic safety.



No more guesswork

The EyeCGas™ includes a digital CCD camera for fast recognition of the components being inspected or leaking, also available for video recording.



Powerful but simple

The EyeCGas™ allows the 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 and Smart LDAR compliance.



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 Image




Normal Mode



Enhanced Mode

Specification

※Specifications are subject to be changed without prior notice.

Imaging Performance	
Thermal Imager	
Thermal Sensitivity	20mK@ 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	3-5µm
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" (230 x 110 x 130)mm
Interface	Tripod mounting UNC 1/4", rotation safe
Display	
Display Unit	3.5"Color LCD 640X480
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 deg, Min temp : -20 deg
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
Designed for detection of	Ethylene, 1-Hexane, 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 and Audio recording	Digital recorder build-in with connection to PC via USB 2.
Storage Capacity	Up to 8 hours of MPEG4/H.264 in ENH mode of video & audio recording in a 16 Gbyte SD card (Built In)
Others Features	
Connectivity	Bluetooth, USB 2
Supplied Accessories	
	Battery Set (3), Tri Battery Charger, USB Cable, Headset, Neck strap, Glare Shield, Carrying Case
OPTIONAL ACCESSORIES	
	75mm f#1.2 Lens - FOV 7.3°x 5.5°- P/N 8G9T7500A