

EyeCGas 2.0 Features

Concentration in real time using only OGI

EyeCGas 2.0 is the world's most sensitive and durable handheld OGI camera. Detecting over 400 VOCs, Methane and CO2. EyeCGas 2.0 is Intrinsically Safe and complies with the EPA's "Quad 0a" (0000a) regulations.

Using its wide range of features and functionalities, it enables surveyors to scan large areas quickly, efficiently and identify gas leaks while staying safe. Allowing for quick repairs and reducing revenue loss.

4 YEAR WARRANTY



ATEX Ex

element



STREAMING

Real-time video streaming and wireless images/videos sharing during inspections.



REPLACEABLE LENS

- 30mm lens (standard)
- 75mm lens (for improved long-range detection)



INTRINSICALLY SAFE

The most durable OGI camera by design. Water and dust protected IP65. Intrinsically safe, ATEX Zone2, IECEx, ANSI/ISA Class I, Div.2, CSA C22.2 Class I, Div. 2.



HIGHER SENSITIVITY

NEDT <10mK with proprietary image processing algorithm detecting 0.35g/hr (Methane). Certified to meet EPA 0000a requirements.



3RD PARTY ANALYZERS & LDAR SOFTWARE INTEGRATION

Connects to 3rd party analyzers (TVA 2020, RMLD, PHX42 and more). Display data on camera screen in real-time and store video files. Integrate your existing LDAR software (Guideware, CNTRL, Chateau, and more) for easy reporting.



REPLACEABLE FILTERS

Exclusive ability to change spectral filters:
• Default filter (Methane & over 400 VOC's)
• Higher Carbons filter (improved higher carbon and long range detection of VOC's)
• CO2 (carbon dioxide detection)



GLARE SHIELD

Enhances the image by x3 and avoids sun glare.



Built-in QUANTIFICATION

Quantify Methane and other VOCs in a simple and user-friendly interface, while seamlessly creating a report at the end of each inspection.



EyeCGas 2.0 TECHNICAL SPECIFICATIONS	
IMAGING PERFORMANCE	
THERMAL IMAGER	
THERMAL SENSITIVITY	<10mK@ 25°C
OPTICS	f/1.1; 18° with 30mm lens; Manual focus
DIGITAL ZOOM	x2,x4, x8 and x16 (only for visible camera)
DIGITAL VIDEO CAMERA	
EMBEDDED DIGITAL CAMERA	HD, fixed focus, for situational awareness
DETECTOR	
TYPE	Cooled High Sensitivity, 320 x 240 pixels
SPECTRAL RANGE	3 to 4.4µm
POWER INPUT	
POWER	12VDC; 13W
BATTERY LIFE	>4.5 hours continuous operation
PHYSICAL CHARACTERISTICS	
WEIGHT (WITH BATTERY AND LENS)	2.6kg (5.9 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
THERMOGRAPHY	
MEASUREMENT	Spot temperature measurement
RANGE	-20°C to +350 °C
ACCURACY	At Least ± 1 °C (0 – 100 °C), ± 2% (> 100 °C), ± 2°C (-20 - 0 °C)
COLOR PALETTES	6 color palettes (Rainbow, Iron, ISO red, ISO green, Grey Scale and Vivid)
QUANTIFICATION	
GAS QUANTIFICATION	Image processing VOC gas quantification for desktop or handheld application (offline/online operation), Concentration measurement (ppm-m)
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	EN 60079-0:2012/A11:2013, EN 60079-11:2012, EN 60079-15:2010, IEC 60079-0:2017, IEC 60079-11:2011, IEC 60079-15:2010, IEC 60079-31:2013
VIBRATION	2.4 GRMS Random Vibration
WATER AND DUST PROTECTION	IP65
HALT- HIGH ACCELERATED LIFE TEST	Max temp: 55°C, Min temp: -20°C
SAFETY	EN 60950-1:2006
HAZARDOUS LOCATIONS SAFE	CSA C22.2 No. 213-M1987, Non-Incentive Electrical Equipment for Use in Class I, Division 2, ANSI/ISA-12.12.01 - Class I and II, Division 2, and Class III, ATEX intrinsically safe for Zone 2 ratings as: Ex II 3 GD; Ex ic nA nC IIC T6 Gc; Ex ic tc IIC T85°C DC
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
WITH SPECTRAL FILTER OF 3.2µM TO 3.4µM FOR VOCs GASES DETECTION	400+ compounds such as: Methane, Acetic acid, Benzene, Butadiene, Butene, Butane, Dimethyl-Benzene, Ethane, Ethylene, Ethyl benzene, Ethylene oxide, Hexane, Heptane, Isobutylene, Isopropyl alcohol, Isoprene, Methanol, MEK Methyl Ethyl Ketone, Octane, Pentene, Propane, Propanal
DIGITAL VIDEO AND AUDIO RECORDING	
VIDEO AND AUDIO RECORDING	Digital video recorder build-in generates a .ts format video on all modes.
SNAPSHOT CAPABILITIES	Snapshot command generates a .jpg file on any of the available modes
STORAGE	Up to 20 hours and more of video storage over a 64GB solid state memory
COMMUNICATION INTERFACES	
USB	Data transfer, video streaming and video images file transfer
Wi-Fi	2.4 GHz for video streaming and file transfer
Bluetooth	Bluetooth 4.2 with other devices: RMLD, TVA2020 ,LDAR software etc...
GPS	Built in or external
SUPPLIED ACCESSORIES	
Batteries (2), Battery Charger, USB Cable, Neck strap, Glare Shield, Carrying Case, Cleaning Kit.	