

» MetCam

Methane Detection Camera

MetCam is a fully integrated unit capable of autonomously detecting methane and natural gas clouds that exceed hazardous levels and produce warnings.

MetCam is further capable of detecting small emissions, for routine preventive maintenance operations, and serves as a situational awareness camera.

The output images, warning and alarm signals of MetCam are displayed on a monitor in the control room using ONVIF interface. Industry standard 4-20 mA is available on-board and can be used to interface the facility infrastructure.

MetCam utilizes advanced algorithms to insure robustness and immunity to spurious effects of environmental origin.

MetCam uses high reliability components and no moving parts to increase the operability and does not need any special maintenance or calibrations other than periodical external cleaning.

MetCam covers a continuous large volume of space without any voids.



» HIGHLIGHT FEATURES

- ▶ 24/7/365 automatic Methane leak detection
- ▶ Quantifies gas concentration length and size of gas cloud
- ▶ Visualizes the gas cloud and source of leak on an image
- ▶ Preset warning and alarm levels
- ▶ Industry standard 4-20 mA warning and alarm output
- ▶ Standard GigE long distance interface with control room
- ▶ Optional WiFi interface
- ▶ Automatic incidence recording on internal memory
- ▶ Withstands harsh environment, IP66 compliant
- ▶ Self-calibrated, low cost of ownership.
- ▶ Approved for hazardous areas / explosive atmospheres, Zone 1 and or Class I, Div.1
- ▶ Emissions monitoring
- ▶ Provides situational awareness

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» MULTIPLE USERS SUPPORTED

- ▶ “Default User” – receives streaming augmented video with gas cloud overlay warning and alarm signals
- ▶ Maintenance “Emissions” User –connects to MetCam periodically and retrieves emission images stored in the camera memory
- ▶ “Service” User – more advanced operations, access camera logs and perform testing.

» SPECIFICATIONS

OPTICAL		
Field of View	67° Horizontal X 23° Vertical	
Working range	10 – 50 meter distance	
DETECTIVITY		
Safety mode alarm levels	A1 and A2 discrete alarms	
Emissions mode minimal detection level	<60 gr/hr Methane	
ELECTRICAL		
Power input	16-32 VDC	
COMMUNICATION		
Local	4-20 mA	Warning , alarm, inhibit & fault
To ONVIF Client	Gigabit Ethernet or WiFi (optional)	
ENVIRONMENTAL		
Explosive Atmosphere	ATEX:2 II G Ex db ia II B+H ₂ T5 Gb IECEX: Ex db ia II B + H ₂ T5 Gb - 20 ⁰ < Ta < 40 ⁰ (- 40 ⁰ < Ta < 60 ⁰ optional)	NEC 500 Class I Div 1 Groups B, C, D, T5 - 25 ⁰ < Ta < 40 ⁰ (- 40 ⁰ < Ta < 60 ⁰ optional)
Relative Humidity	0% - 100%	
Ingress Protection	IP66	IEC 60529
PHYSICAL		
Dimensions	156 x 236 x 183 mm	without accessories
Weight	4.3 kg	
INTERFACE		
Mechanical	4 x 10-32 UNF	
Exd gland entrance thread	3/4" NPT or M25x1.5	

Specifications are subject to change without prior notice

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