OGTECH
Oil & Gas Technologies

GasViewer

OGI FIXED UNCOOLED CAMERA GASVIEWER GV-F-714

• 24/7 on site gas leak monitoring.
• Real time gas cloud colorization and quantification.
• Full turnkey solution including field junction box, control room hardware, alarms and connection to DCS.
• Safe for hazardous area (Atex zones 1 and 2).

ACCURACY
As low as 0.5 gr/sec CH4 at 100 m or 0,3 gr/sec CH4 at 50 m.

ALARMS
• Automatic visual and audible alarm on system screen in control room.
• Sending SMS or email to the person on call (optional).
• Through your DCS (optional).

CONNECTIVITY
• From camera to control room: fiber optic or wireless (optional).
• From system server located in your control room to your DCS: Modbus or dry contact (both optional).

RECORDING
• Automatic video recording starts with every alarm and lasts the time of the alarm.
• Additional recording time can be set up as per customer requirement (24/7 during x days for example).
• Videos are stored on the system hard drive. A user-friendly interface allows easy retrieval and play back for later analysis.

SAFETY CERTIFICATION
ATEX II 3G Ex ec IIC T4 Gc, zone 1 available as option.

SYSTEM FLEXIBILITY
System server and software can handle multiple GV-F-714.

GASVIEWER GAS CLOUD MONITORING, FULL TURNKEY SOLUTION, FOR VOC

24h site monitoring using our OGI camera GV-F-714 with real-time video streaming to the control room. When a gas cloud is detected, it shows on the system screen located in the control room. The gas cloud is colorized and quantified. An alarm is triggered in our system to automatically inform the control room staff. The alarm can also be transmitted directly to the local DCS through Modbus or dry contacts.

For each alarm, a video is recorded in our system and can be retrieved easily through our user-friendly interface, for future analysis.

Gas cloud monitoring is ideal for facilities with flammable materials and combustible storage areas that are sensitive to gas emission such as refineries, petrochemical plants, tank farms, gas compression station, gas transportation, biogas plants…
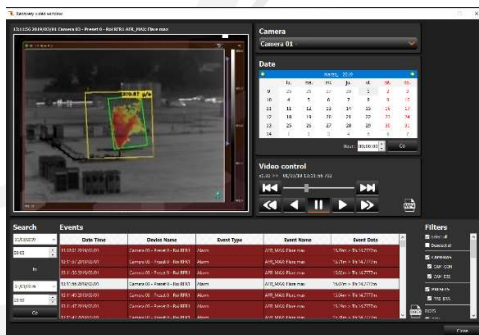
DATA SHEET

GasViewer

FUNCTIONALITIES	
APPLICATION	GAS CLOUD MONITORING
ADDITIONAL APPLICATIONS	GAS DETECTION GAS CLOUD COLORIZATION GAS LEAK FLOW RATE FIRE DETECTION HOT SPOT MONITORING ANTI INTRUSION VIRTUAL FENCE MAN DOWN
CAMERA TYPE	FIXED FOR 24/7 SITE MONITORING

GAS LEAK DETECTION PERFORMANCE	
GAS DETECTED	VOC, CH4, SO2
MIN. LEAK RATE	0,5 gr/sec CH4 at 100 m 0,3 gr/sec at 50 m

ALARMS	
ALARM	In control room
AUTOMATIC ALARM	yes
CONNECTION WITH DCS	Mod bus Dry contact
ADDITIONAL ALARM	- SMS or email to person on call - Video streaming on intranet or internet for remote access
CONNECTIVITY	Fiber or wireless (optional) using ip (internet protocol)
COMMUNICATION	Wireless supported

IMAGING PERFORMANCE	
FIELD OF VIEW (°H x °V) - LENS	N: 12"x9" M:18"x13" W:31"x23"
DIGITAL ZOOM	Continuous up to 8x
COLOR VIDEO CAMERA (IN ADDITION TO IR)	Optional
DISPLAY UNIT	Video screen in control room

DIGITAL VIDEO RECORDING	
STORAGE CAPACITY	Depending on hard drive installed on server, as per customer requirement

DETECTOR	
DETECTOR & TECHNOLOGY SPECTRAL RANGE	IR-UNCOOLED 7 - 14 µm
THERMAL SENSITIVITY (NETD)	< 22 mK @ 30°C
IR RESOLUTION	640 x 480 pixels

POWER INPUT	
POWER INPUT	POE (power over ethernet) 9v-48v 12VDC (instead of PoE)
POWER CONSUMPTION	<3 watts,

ENVIRONMENTAL CONDITIONS	
HAZARD LOCATIONS CERTIFICATIONS	ATEX II 3G Ex ec IIC T4 Gc EN 60079-0 :2012+ A11 : 2013.EN 60079-7:2015 Zone 1 available (optional)
OPERATING TEMPERATURE	Range -10°C to +65°C
WATER AND DUST PROTECTION	IP66 / IP67 EN 60529
TEMPERATURE RANGE	Customized
R. MOISTURE IEC 68-2-30/24 H	95% in range +25°C to +40°C
STORAGE TEMPERATURE RANGE	-40°C to +71°C

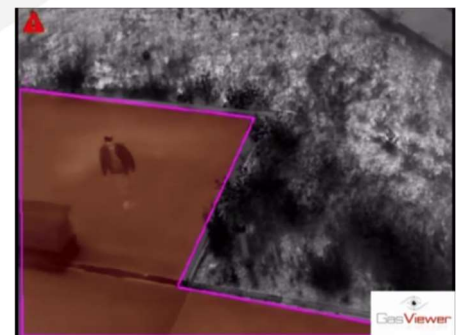| PHYSICAL CONDITIONS	
WEIGHT	3 kg
SIZE	97×110×330 mm

Figure 1
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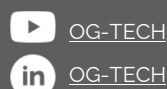Alarm videos log interface.

Figures 2 & 3
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Additional functions such as fire detection and anti-intrusion can be turned on in our software to increase your site security, using the same cameras.

«We see what you can't see»