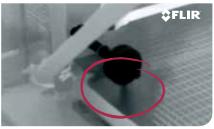
\$FLIR

Captured gas leak from production site.



Captured gas leak.

FLIR G300 a

Optical Gas Imaging Cameras For Continuous Gas Leak Detection

Optical gas imaging cameras from FLIR can visualize and pinpoint gas leaks that are invisible to the naked eye. With an optical gas imaging camera it is easy to continuously scan installations that are in remote areas or in zones that are difficult to access.

Continuous monitoring means that you will immediately see when a dangerous or costly gas leak appears so that immediate action can be taken. Optical gas imaging (OGI) cameras are widely used in industrial settings, such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical complexes, and biogas and power generation plants.

OGI cameras like the FLIR G300 a can detect harmful VOC's (volatile organic compounds) that can seriously harm the environment.

FLIR G300 a optical gas imaging camera can be easily integrated in housings with application specific requirements.

COOLED DETECTOR MAKES THE SMALLEST TEMPERATURE DIFFERENCES VISIBLE

FLIR G300 a contains a cooled Indium Antimonide (InSb) detector that produces thermal images of 320×240 pixels. With its low F-number and high sensitivity, G300 a detects the smallest of leaks.

The high sensitivity mode further enhances the detection level of the camera so that the smallest gas leaks can be detected.

EASY TO CONTROL

All models are easy to control from a safe distance. They can be fully controlled over Ethernet. They can easily be integrated in a TCP/ IP network.

AVAILABLE LENSES

The FLIR G300 a is available with a 23 mm (FOV: $24^{\circ} \times 18^{\circ}$) or 38 mm (14.5 x10.8) lens. Longer lenses give you a narrower field of view so that you can detect gas leaks from further away.

FLIR G300 A DETECTS THE FOLLOWING GASES:

Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, m-xylene, Butane, Methane, Propane, Ethylene and Propylene.



Technical specifications FLIR G300 a

Imaging & Optical Data	FLIR G300 a
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18° with 23 mm lens; 14.5 x10.8 with 38 mm lens
Minimum focus distance	0.3 m (1.0 ft.) for 23 mm lens; 0.5 m (1.64 ft.) for 38 mm lens
F-number	1.5
Focus	Automatic using FLIR SDK, or manual
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, High Sensitivity Mode (HSM)
Detector data	
Detector type	Focal Plane Array (FPA), cooled InSb
Spectral range	3.2–3.4 µm
Image presentation	
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation mo	des
Image modes	IR-image, High Sensitivity Mode (HSM)
Electronics and data ra	ite
Full frame rate	60 Hz
Temperature ranges	
Temperature range	-20°C to +350°C (-4°F to +662°F)
Video streaming	
Non-radiometric IR-video streaming	RTP/MPEG4
USB	
USB	Control and image
USB, standard	2.0 High Speed
USB, connector type	USB micro
USB, communication	TCP/IP socket-based, Microsoft RNDIS and/or USB video class
USB, video streaming	640 × 480 pixels at 30 Hz
USB, image streaming	16-bit 320 × 240 at 30 Hz
USB, protocols	TCP, UDP, RTSP, RTP, HTTP, ICMP, IGMP, ftp,DHCP
Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
	TCP/IP socket-based FLIR proprietary
Ethernet, communication	Territ dedict based Lint proprietary
Ethernet, communication Ethernet, video streaming	640 x 480 pixels at up to 15 Hz, MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
,	640 × 480 pixels at up to 15 Hz, MPEG-4,

Data communication interfaces		
Interfaces	Ethernet / HDMI	
Composite video		
Video out	Digital Video Output (image)	
Power system		
DC operation	10–28 V DC, polarity protected	
Start-up time	Typically 7 min. @ 25°C (+77°F)	
Environmental data		
Operating temperature range	-20°C to +50°C (-4°F to +122°F)	
Storage temperature range	-30°C to +60°C (-22°F to +140°F)	
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycl)	
Directives	Low voltage directive: 2006/95/EC , EMC: 2004/108/ EC , RoHS: 2002/95/EC, WEEE: 2002/96/EC	
EMC	EN61000-6-4 (Emission) / EN61000-6-2 (Immunity) / FCC 47 CFR Part 15 class A (Emission) / EN 61 000-4-8, L5	
Shock	25 g (IEC 60068-2-27)	
Vibration	2 g (IEC 60068-2-6)	
Physical data		
Weight	1.4 kg (3.1 lb.), incl. 14.5° lens	
Cameras size, incl. lens (L × W × H)	242x80x105mm (9.5x3.1x4.1 in.) incl. 14.5° lens	
Housing material	Aluminum	

FLIR Systems Trading Belgium BVBA Luxemburgstraat 2

B-2321 Meer Belgium PH: +32 (0) 3 665 51 00

FLIR Systems, Inc. 9 Townsend West Nashua, NH 06063 USA PH: +1 603.324.7611

FLIR Systems AB Antennvägen 6, PO Box 7376 SE-187 66 Täby Sweden PH: +46 (0)8 753 25 00 FLIR Systems Ltd. 920 Sheldon Ct Burlington, Ontario L7L 5K6 Canada PH: +1 800 613 0507

FLIR Systems UK
2 Kings Hill Avenue Kings Hill
West Malling
Kent
ME19 4AQ
United Kingdom
PH: +44 (0)1732 220 011

www.flir.com flir@flir.com NASDAQ: FLIR

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2014 FLIR Systems, Inc. All rights reserved. (Created 09/14)

