

FLIR A6604

Thermal Imaging Camera for Continuous Gas Leak Detection



Optical gas imaging cameras from FLIR can visualize and pinpoint gas leaks. 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 industries, and biogas and power generation plants.

OGI cameras like the FLIR A6604 can detect harmful greenhouse gases that can seriously harm the environment.

COOLED DETECTOR MAKES THE SMALLEST TEMPERATURE DIFFERENCES VISIBLE

FLIR A6604 contains a cooled Indium Antimonide (InSb) detector that produces thermal images of 640 x 512 pixels. More pixels give you a wider field of view so that you can monitor larger installations. It also offers an ultra-crisp image.

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

EASY TO CONTROL

FLIR A6604 is easy to control from a safe distance. It can be fully controlled over Ethernet and easily integrated in a TCP/ IP network. The FLIR A6604 is GiGE Vision and GenICam compatible.

FLIR A6604 DETECTS THE FOLLOWING GASES:

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



Captured gas leak.



A leaking flange.

Technical specifications FLIR A6604

Imaging & Optical Data	
FLIR A6604	
IR resolution	640 x 512 pixels
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV) v	21.4° x 17.5° with 25 mm lens, 11.0° x 8.9° with 50 mm lens, 5.5° x 4.4° with 100 mm lens
Minimum focus distance	NA
F-number	NA
Focus	Manual
Zoom	1x or 2x digital
Digital image enhancement	High Sensitivity mode
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	Level/span
Image presentation modes	
Image modes	IR-image, High Sensitivity Mode (HSM)
Electronics and data rate	
Full frame rate	Full window 60 Hz, 1/2 window 240 Hz, 1/4 window 480 Hz
Temperature ranges	
Temperature range	–20°C to +350°C (–4°F to +662°F) ; up to 1,500 C (2732 F) or up to 2,000 C (3,662 F) optional
Ethernet	
Ethernet	Control, image
Ethernet, type	1 Gbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	Communication TCP/IP
Ethernet, video streaming	Video streaming, NTSC, PAL
Ethernet, image streaming	Image streaming, GigE Vision
Ethernet, protocols	Protocols, GigE Vision
Data communication interfaces	
Interfaces	Gigabit Ethernet (GEV/Genicam compatible)
Composite video	
Video out	NTSC / PAL
Power system	
DC operation	24 VDC, 24 W max.
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–40°C to +50°C
Storage temperature range	–55°C to +68°C
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
Encapsulation	IP 50
Bump	40g, 11msec half sine puls
Vibration	4.3g RIMS random vobration 3-axes
Physical data	
Weight	2.3 kg (5 lbs)
Camera size, excl. lens (L x W x H)	196 x 102 x 102 mm (7.7" x 4.0" x 4.0")
Housing material	Aluminum

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