

# FLIR G300 pt 14.5° PAL

### P/N: 65501-0101

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#### **Document identity**

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#### Website

http://www.flir.com

**Customer support** 

http://support.flir.com

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



#### **General description**

The FLIR G300pt is a pan/tilt infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of volatile organic compounds (VOCs) without the need to shut down the operation. The FLIR G300pt is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

The FLIR G300pt precision pan/tilt mechanism gives operators accurate directional control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

#### **Key features**

- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 encapsulation.
- IP control: The FLIR G300pt camera can be integrated into any existing TCP/IP network and controlled with a PC.
- Serial control interface: Pelco D or Bosch commands can be used over RS-232, RS-422, or RS-485 to remotely control a FLIR G300pt camera.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR G300pt camera in a TCP/IP network.

#### Benefits

- Improved efficiency: The FLIR G300pt reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR G300pt gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR G300pt.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, *m*-xylene, ethane, butane, methane, propane, ethylene, propylene.

# Imaging and optical data

IR resolution	$320 \times 240$ pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)



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Imaging and optical data				
Field of view (FOV)	14.5° × 10.8°			
Minimum focus distance	0.5 m (1.64 ft.)			
Focal length	38 mm (1.49 in.)			
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			
Sensor cooling	Stirling Microcooler (FLIR MC-3)			
MTBF	2 years or 15,000 hours (whichever is greatest), for a camera running 24/7 @ +20°C (+68°F)			
Detects following gases	Benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, m- xylene, ethane, butane, methane, propane, ethylene, propylene			
Imaging and optical data (visual camera)				
Field of view (FOV)	57.8° (H) to 1.7° (H)			
Focal length	3.4 mm (wide) to 122.4 mm (tele)			
F-number	1.6 to 4.5			
Focus	Automatic or manual (built in motor)			
Optical Zoom	36× continuous			
Electronic Zoom	12× continuous, digital, interpolating			
Detector data (visual camera)				
Focal plane array (FPA)	1/4" Exview HAD CCD			
Effective pixels	380.000			
Technical specification (pan & tilt)				
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max			
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max			
Programmable presets	128			
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).			
Ethernet				
Ethernet	Control, result and image			
Ethernet, type	100 Mbps			
Ethernet, standard	IEEE 802.3			
Ethernet, connector type	RJ-45			
Ethernet, communication	TCP/IP socket-based FLIR proprietary			



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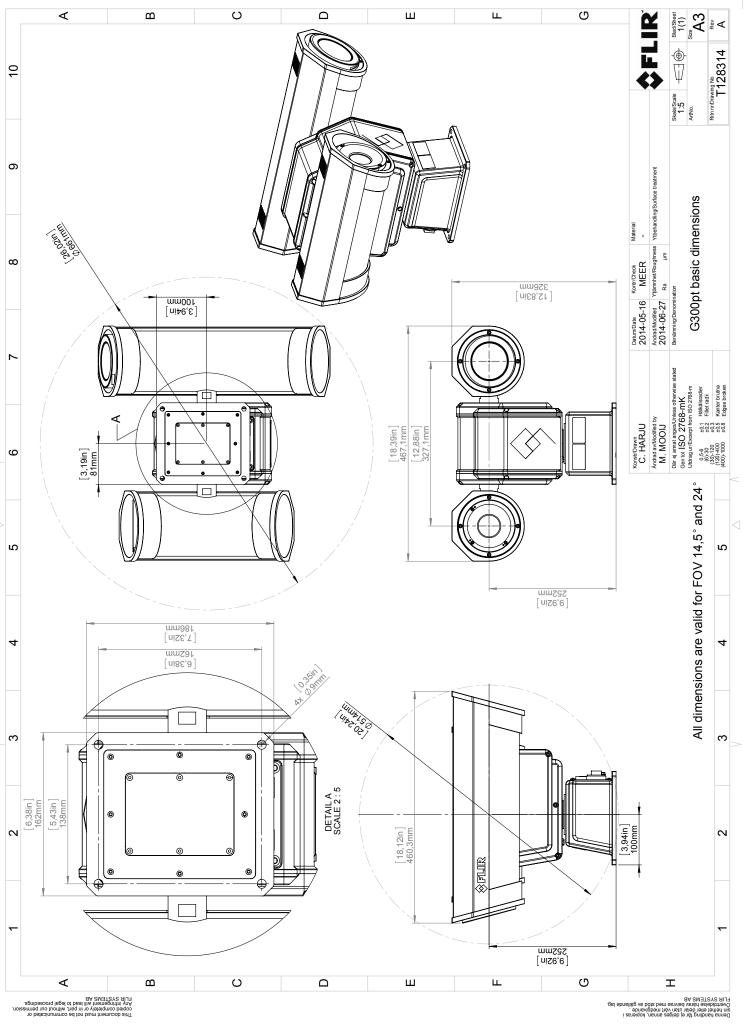
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Ethernet				
Ethernet, video streaming	Two independent channels for each camera			
	- MPEG-4, H.264, or M-JPEG			
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP			
Composite video				
Video out	Composite video output, PAL compatible			
Video, standard	CVBS (ITU-R-BT.470 PAL)			
Power system				
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).			
Environmental data				
Operating temperature range	-40°C to +50°C (-40°F to +122°F)			
Storage temperature range	-40°C to +60°C (-40°F to +140°F)			
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25° C to +40°C (+77°F to +104°F)			
Directives	<ul> <li>Low voltage directive: 2006/95/EC</li> <li>EMC: 2004/108/EC</li> <li>RoHS: 2002/95/EC</li> <li>WEEE: 2002/96/EC</li> </ul>			
EMC	<ul> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> <li>EN 61 000-4-8, L5</li> </ul>			
Encapsulation	IP 66 (IEC 60529)			
Bump	5 g, 11 ms (IEC 60068-2-27)			
Vibration	2 g (IEC 60068-2-6)			
Physical data				
Weight	18.7 kg (41.2 lb.)			
Size $(L \times W \times H)$	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)			
Housing material	Aluminum			
Shipping information				
List of contents	<ul> <li>Infrared camera</li> <li>Printed documentation</li> <li>Small parts accessory kit</li> <li>ThermoVision System Tools &amp; Utilities CD-ROM</li> </ul>			
EAN-13	7332558008423			
UPC-12	845188008772			
0.0.12				

### Supplies & accessories:

• T911288ACC; Pole mount adapter for wall mount kit





October 29, 2014 AQ320094

### **CE Declaration of Conformity**

This is to certify that the System listed below have been designed and manufactured to meet the requirements, as applicable, of the following EU-Directives and corresponding harmonising standards. The systems consequently meet the requirements for the CE-mark.

Directives: Directive 2004/108/EC; Electromagnetic Compatibility

Standards:		
Emission:	EN 61000-6-4;	Electro magnetic Compatibility Generic standards - Emission
Immunity:	EN 61000-6-2;	Electro magnetic Compatibility; Generic standards - Immunity

System:

FLIR G300pt series

FLIR Systems AB Quality Assurance

Björn Svensson Director