

## P/N: 65502-0102

### Copyright

© 2016, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 65502-0102

Release:

Commit: 35207

Language: en-US

Modified: 2016-04-27

Formatted: 2016-11-10

### 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](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR G300 pt 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 G300 pt 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 G300 pt 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 G300 pt 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 G300 pt camera.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR G300 pt in a TCP/IP network.

### Benefits

- Improved efficiency: The FLIR G300 pt 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 G300 pt gas imaging camera unit 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 G300 pt.

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 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)

P/N: 65502-0102

© 2016, FLIR Systems, Inc.

#65502-0102; r. /35207; en-US

Imaging and optical data	
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 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	EI 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

P/N: 65502-0102

© 2016, FLIR Systems, Inc.

#65502-0102; r. /35207; en-US

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, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)
Power system	
Power	24 VAC (21–30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21–30 VDC; 24 VDC: 200 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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera</li> <li>• Printed documentation</li> <li>• Small parts accessory kit</li> <li>• ThermoVision System Tools &amp; Utilities CD-ROM</li> </ul>
Packaging, weight	23.4 kg (51.6 lb.)
Packaging, size	670 × 570 × 490 mm (26.4 × 22.4 × 19.3 in.)
EAN-13	7332558008454



## FLIR G300 pt 24° NTSC

**P/N: 65502-0102**

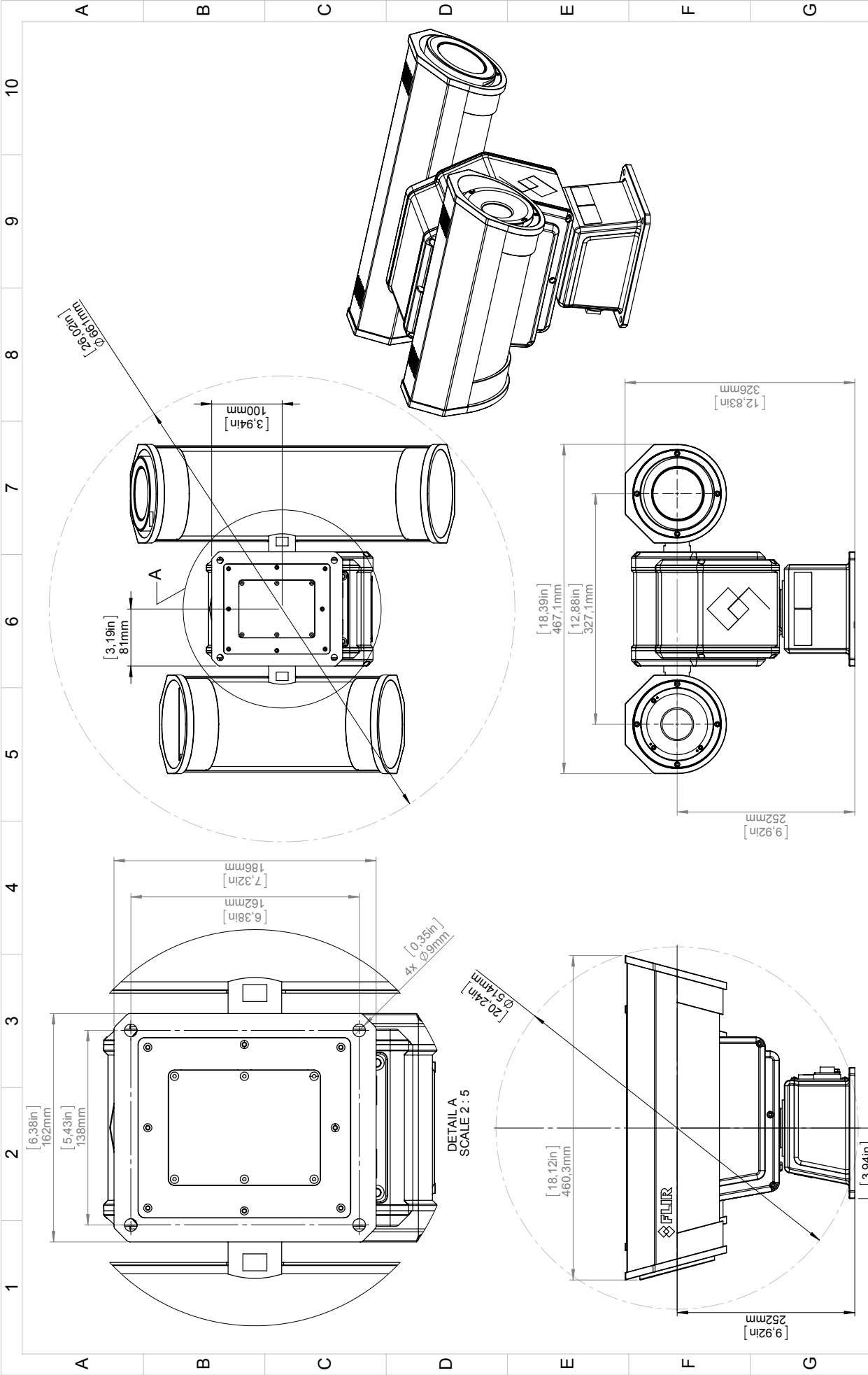
© 2016, FLIR Systems, Inc.

#65502-0102; r. /35207; en-US

Shipping information	
UPC-12	845188008802
Country of origin	Sweden

### Supplies & accessories:

- T911263ACC; Wall mount kit
- T911288ACC; Pole mount adapter for wall mount kit



<b>FLIR</b>		Material		-	
Konstr/Drawn		Konstr/Check		MEER	
C. HARJU		Datum/Date		2014-05-16	
M. MOOJ		Ändrad/Modified		Ylämähle/Roughness	
Där ej annat anges/Unless otherwise stated		Ra		µm	
Gen to ISO 2768-mK		Benämning/Denomination		2014-06-27	
Uttag ur/Excerpt from ISO 2768-m		G300pt basic dimensions		Sheet/Scale	
0.5-6		ArtNo.		1:5	
0.5-6		Ritning/Drawing No		T128314	
0.5-6		Rev		A	
0.5-6		Size		A3	
0.5-6		Sheet/Sheet		(1)	
0.5-6		ArtNo.		1:5	
0.5-6		Ritning/Drawing No		T128314	
0.5-6		Rev		A	

All dimensions are valid for FOV 14,5° and 24°



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**

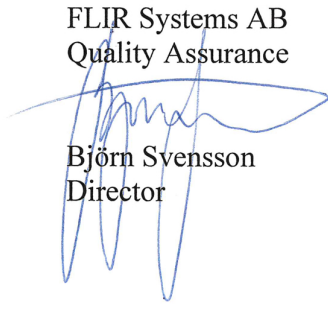
Standards:

**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