



# FLIR GF300

Infrared camera for gas leak detection and electrical inspections

The new FLIR GF300 is a revolutionary infrared camera capable of finding Methane emissions or other Volatile Organic Compounds (VOC). It is also unbeatable for detecting even the smallest gas leaks.

- Real time visualization of gas leaks
- Considerably reduced inspection time
- Trace leaks to their source
- Perform safer inspections
- Internal data/video storage
- Digital camera & GPS
- High performance LCD & Tilttable high resolution viewfinder
- Multi-angle handle with integrated direct access buttons

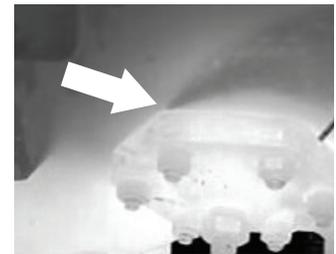


FLIR GF300 can scan large areas rapidly and pinpoint leaks in real time. It is ideal for monitoring plants that it is difficult to reach with contact measurement tools. Literally thousands of components can be scanned per shift without the need to interrupt the process. It reduces repair downtime and provides verification of the process. And above all it is exceptionally safe, allowing potentially dangerous leaks to be monitored from several meters away.

FLIR GF300 will significantly improve your work safety, environmental and regulatory compliance, not to mention helping to improve the bottom line by finding leaks that essentially decrease profits.

Detects the following gases:

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

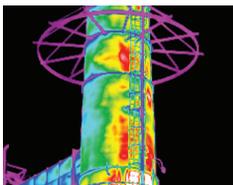


The sniffer is detecting gas but unable to trace its source, whereas this thermal image shows the leak source clearly on the left.



Tilttable, Flip-out 4.3" High Contrast Color LCD allows you to view targets more safely from any angle, and avoid eye strain after long time.

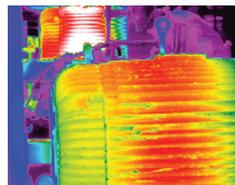
### Applications:



Gas leak detection in oil refineries



Natural gas



Power generation



Petrochemical & chemical industries



Automatic (one Touch) and Manual Focus w/ 8 to 1 Continuous Digital Zoom helps you to deliver the perfect picture at ease.

# FLIR GF300 Technical Specifications

Imaging and optical data	
Field of view (FOV) / Minimum focus distance	24° x 18° / 0.3 m
Lens identification	Automatic
F-number	1.5
Thermal sensitivity/NETD	<25 mK @ +30°C
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8x continuous, digital zoom
Digital image enhancement	Noise reduction filter, scene based NUC, High Sensitivity Mode (HSM)
Focal Plane Array (FPA) / Spectral range	Cooled InSb / 3.2–3.4 μm
IR resolution	320 x 240 pixels
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 x 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 x 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image modes	IR-image, visual image, High Sensitivity Mode (HSM)
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Set-up commands	1 programmable button, local adaptation of units, language, date and time formats
Storage of images	
Image storage type	Removable SD or SDHC Memory Card, two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images. Visual image is automatically associated with corresponding IR image.
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
GPS	Location data automatically added to every image from built-in GPS
Video recording and streaming	
Non radiometric IR-video recording	MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video.
Non radiometric IR-video streaming	RTP/ H.264
Digital camera	
Built-in digital camera	3.2 Mpixel, auto focus, and two video lamps
Digital camera video recording	MPEG/H.264 (25 minutes/ clip) to memory card
Laser pointer	
Laser	Activated by dedicated button
Data communication interfaces	
USB	USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 High Speed
Video	Digital Video Output (image)
Power system	
Battery type	Rechargeable Li Ion battery
Battery voltage	7.2 V
Battery operating time	> 3 hours at 25°C and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2 bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
Start-up time	Stirling cool down: < 5 min. @ 25°C
Environmental data	
Operating temperature range	–20°C to +50°C
Storage temperature range	–30°C to +60°C
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (2 cycl)
Directives	73/23/EEC, 89/336/EEC, 2002/95/EC, 2002/96/EC
EMC	EN61000-6-3 (Emission) EN61000-6-2 (Immunity) FCC 47 CFR Part 15 class B (Emission) EN 61 000-4-8, L5 EN/UL/CSA 60950-1
Encapsulation	IP 54 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Camera weight, incl. lens and battery	2.4 kg
Battery weight	0.24 kg
Cameras size, incl. lens (L x W x H)	305 x 169 x 161 mm
Tripod mounting	Standard, 1/4"-20
Housing material	Aluminium, Magnesium
Grip material	TPE Thermoplastic Elastomers

Scope of delivery	
Packaging, contents	
Infrared camera	
Standard Lens, 24" (Si)	
Hard transport case	
Lens cap (mounted on lens)	
Lens cap (2 ea., backside of lens and opening on camera body)	
Strap for lens cap, 2 ea.	
Shoulder strap	
Batteries 2 ea. (1 of the batteries inside camera)	
Charger	
Power supply	
Power supply cord	
HDMI- HDMI cable	
HDMI- DVI cable	
USB cable	
SD card	
SD card adapter (connects via USB to PC)	
Getting Started Guide (printed)	
FLIR QuickReport (TM mark) PC software CD-ROM	
FLIR VideoReport (TM mark) PC software CD-ROM	
Video Report 1.0 with manual on CD	
Warranty extension card or Registration card	



\*All FLIR GF300 Series (fixed lens) requires U.S. Department of Commerce license.  
\*All Interchangeable lens versions of FLIR GF300 Series requires U.S. Department of State license.  
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