



FLIR GF300/GF320

Infrared Camera for Methane and VOC Detection

The FLIR GF300/GF320 is a revolutionary infrared camera capable of detecting Methane and Volatile Organic Compound (VOC) fugitive emissions from the production, transportation, and use of oil and natural gas. This camera can scan large areas and visualize potential gas leaks in real-time, so you can check thousands of components over the course of one survey. Designed with the user in mind, the GF300/GF320 is lightweight, offers both a viewfinder and LCD monitor, and has direct access to controls. Embedded GPS data helps in identifying the precise location of faults and leaks, for faster repairs.

Visualize Gas Emissions in Real-time

The FLIR GF300/GF320 is unbeatable at detecting gas emissions, with a High Sensitivity Mode that lets you visualize even the smallest leaks in real-time. Use this visual verification to pinpoint the exact source of the emissions and begin repairs immediately. In addition, the GF320 is capable of measuring temperatures up to 350 °C with ± 1 °C accuracy, allowing you to note temperature differentials and improve gas plume detection.

Increase Worker Safety

Surveys performed with GF300/GF320 cameras are nine-times faster than those performed with gas sniffers. They're also safer: optical gas imaging does not require close contact with components in order to detect gas. This reduces the risk of exposure to invisible and potentially harmful chemicals. In addition, the camera can scan areas of interest that are difficult to reach using conventional methods. The ergonomic design, with a bright LCD and articulated viewfinder, takes the strain out of a full day of surveys.

Stop Leaks, Save Money, Help the Environment

By fixing gas leaks, you can save your company thousands in lost gas and lost profits, while at the same time improving regulatory compliance and protecting the environment. The FLIR GF300/GF320 complies with all current regulations for Optical Gas Imaging (OGI). See our website for a full listing.

The GF300/GF320 detects the following gases:

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



The World's Sixth Sense™

Specifications

| Model | GF300 / GF320 |
|-----------------------------|--|
| Detector Type | FLIR Indium Antimonide (InSb) |
| Spectral Range | 3.2 – 3.4 μ m |
| Resolution | 320 x 240 pixels |
| Detector Pitch | 30 μ m |
| NETD/Thermal Sensitivity | <15 mK @ +30°C (+86°F) |
| Sensor Cooling | Stirling Microcooler (FLIR MC-3) |
| Electronics / Imaging | |
| Image Modes | IR Image, visual image, high sensitivity mode (HSM) |
| Frame Rate (Full Window) | 60 Hz |
| Dynamic Range | 14-bit |
| Video Recording / Streaming | Real-time non-radiometric recording: MPEG4/H.264 (up to 60 min./clip) to memory card Real-time non-radiometric streaming: RTP/MPEG4 |
| Visual Video | MPEG4 (25 min./clip) to memory card |
| Visual Image | 3.2 MP from integrated visible camera |
| GPS | Location data stored with every image |
| Camera Control | Remote camera control via USB |
| Measurement | |
| Standard Temperature Range | -20°C to +350°C (-4°F to +662°F) |
| Accuracy* | $\pm 1^\circ\text{C}$ ($\pm 1.8^\circ\text{F}$) for temperature range (0°C, to +100°C, +32°F to +212°F) or $\pm 2\%$ of reading for temperature range (>+100°C, >+212°F) |
| Optics | |
| Camera f/number | f/1.5 |
| Available Fixed Lenses | 14.5° (38 mm), 24° (23 mm) |
| Focus | Automatic (one touch) or manual (electric or on the lens) |
| Image Presentation | |
| On-Camera Display | Built-in widescreen, 4.3 in. LCD, 800 x 480 pixels |
| Automatic Gain Control | Continuous/manual, linear, histogram |
| Image Analysis* | 10 spotmeters, 5 boxes with max./min./average, profile, delta temperatures, emissivity & measurement corrections |
| Color palettes | Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC |
| Zoom | 1-8x continuous, digital zoom |
| General | |
| 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) |
| Encapsulation | IP 54 (IEC 60529) |
| Bump / Vibration | 25 g (IEC 60068-2-27) / 2 g (IEC 60068-2-6) |
| Power | AC adapter 90-260 VAC, 50/60 Hz or 12 V from a vehicle |
| Battery System | Rechargeable Li-ion battery |
| Weight w/ Battery & Lens | 1.94 kg (4.27 lbs) |
| Size (L x W x H) w/ Lens | 305 x 169 x 161 mm |
| Mounting | Standard, 1/4"-20 |

* GF320 model only

FLIR Premium Partner:
Viper Imaging
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www.viperimaging.com
(866) 542-7024



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