



## OPTICAL GAS IMAGING CAMERA

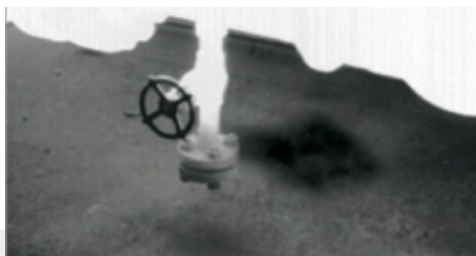
# FLIR GF620™

The FLIR GF620 is a high-resolution, high-sensitivity camera that helps detect and visualize methane and other volatile organic compounds. With the GF620's ground-breaking 640 × 480 IR detector, inspectors can safely scan for gases from greater distances than with previous, lower-resolution models. It's also the first FLIR optical gas imaging camera to offer a Quantification mode (Q-Mode), for streamlined set-up of the optional QL320 gas quantification system. The durable GF620 has an ergonomic design that reduces strain, with a tiltable viewfinder and adjustable LCD monitor for viewing at any angle.

[www.flir.com/GF620](http://www.flir.com/GF620)

### FLIR-Partner: ITEMA GmbH

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### INCREASE SURVEY EFFICIENCY

*Inspect up to nine-times faster than with traditional methods, without halting operations*

- Sweep wide areas, then narrow in to rapidly scan components for signs of leaks
- See smaller leaks using the same optics and distances as earlier models, thanks to a 4x increase in pixels within the field of view
- Use temperature measurement to ensure optimal contrast between gases and the background
- Improve detection by engaging High Sensitivity Mode (HSM) to accentuate plume movement

### SAVE PRODUCT AND REVENUE

*Catch leaks early, reduce emissions, and avoid the cost of gas losses and regulatory fines*

- Eliminate the guesswork that delays repairs by pinpointing the exact source of emissions
- Improve reliability and avoid product loss by surveying for leaks while equipment is operating
- Quantify your losses and their effect on the bottom line by engaging Q-mode\*
- Verify regulatory compliance and meet sensitivity standards defined in the US EPA's 0000a methane rule and Method 21 AWP

\*When used with the QL320, sold separately

### LESS FATIGUE, MORE SAFETY

*Survey more components for longer periods, while maintaining a safe distance*

- Inspect all day long with less fatigue thanks to tiltable eyepiece, adjustable LCD screen, and other ergonomic features
- Reduce exposure to harmful emissions by verifying the presence of gas from a safe distance
- Quickly set up and run Q-Mode without the need to tether to the optional QL320 system
- Confirm the size of leaks when surveying hard-to-reach or hard-to-measure components

## SPECIFICATIONS

<b>Image and optical data</b>	<b>GF620</b>
IR resolution	640 × 480 (307,200 pixels)
Thermal sensitivity	20 mK at 30°C (86°F)
Field of view	24° x 18° or 14.5° x 10.8°
Minimum focus distance	0.3 m (1.0 ft)
Focal length	23 mm (0.89 in) or 38 mm (1.49 in)
F-number	1.59
Focus	Manual
Zoom	1-8x continuous, digital zoom
<b>Detector data</b>	
Detector type and pitch	Indium antimonide (InSb) focal plane array; 15 µm
Spectral range	3.2–3.4 µm
Sensor cooling	Sterling microcooler
<b>Image presentation and frame rate</b>	
Full frame rate	60 Hz
Display	800 × 480 pixel built-in, 4.3 in widescreen LCD
Viewfinder	800 × 480 pixel built-in, tiltable OLED
Automatic image adjustment	Continuous/manual, linear- or histogram-based
Manual image adjustment	Level/span
Image modes	IR image, visual image, High Sensitivity Mode (HSM)
Color palettes	Iron, gray, rainbow, rainbow HC, arctic, lava
<b>Measurement and analysis</b>	
Temperature range	-20°C to 350°C (-4°F to 662°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C to 100°C, 32°F to 212°F) or ±2% of reading for temperature range (>100°C, >212°F)
Detected gases	Includes: methane, propane, benzene, butane, ethanol, ethane, ethylene, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, propylene, toluene, xylene
Spotmeters / area boxes	10 spotmeters; 5 boxes with max/min/average
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list

<b>Storage of images and videos</b>	
Storage media	Removable SD or SDHC memory card
Image storage capability	500 JPEGs per GB; 14-bit measurement data included
Image storage mode	IR/visual images
Radiometric IR video recording	*.seq video clips saved to memory card (3.75 and 7.5 Hz)
Quantification Mode recording	Yes, with optional QL320 system
Non-radiometric IR video recording	MPEG4, up to 60 min/clip
Visual video recording	MPEG4, up to 25 min/clip

<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic streaming to PC using USB cable
Non-radiometric IR video streaming	RTP/MPEG4

<b>Additional features</b>	
Built-in digital camera	3.2 Mpixels, autofocus, two video lamps
Laser	Class 2, activated by dedicated button
USB	USB Mini-B, 2.0 high speed
Video out	Digital video output (image)
Battery	Rechargeable 7.2 V Li-ion
Battery capacity	4.4 Ah
Battery operating time	>3 hours at 25°C (68°F) and typical use
Operating temperature range	-20°C to 50°C (-4°F to 122°F)
Ambient temperature range	-30°C to 60°C (-22°F to 140°F)
Camera size (L × W × H)	245 × 166 × 164 mm (9.6 × 6.5 × 6.4 in)
Camera weight w/battery	2.80 kg (6.18 lbs)
Tripod mounting	UNC ¼"-20
Box contents	Infrared camera with lens, lens cap with strap, hard transport case, memory card, batteries (2), battery charger, power supply (including multi-plugs), neck and hand straps, cables (USB, HDMI-DVI, HDMI-HDMI), printed documentation, screwdriver (TX20)

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