



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.

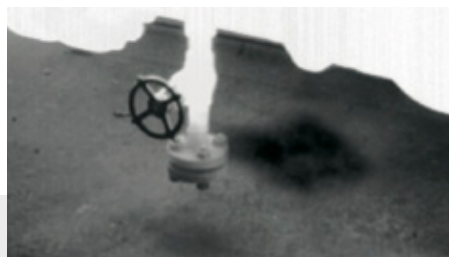
www.flir.com/GF620



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

Image and optical data		Storage of images and videos	
IR resolution	640 × 480 (307,200 pixels)	Storage media	Removable SD or SDHC memory card
Thermal sensitivity	20 mK at 30°C (86°F)	Image storage capability	500 JPEGs per GB; 14-bit measurement data included
Field of view	24° x 18° or 14.5° x 10.8°	Image storage mode	IR/visual images
Minimum focus distance	0.3 m (1.0 ft)	Radiometric IR video recording	*.seq video clips saved to memory card (3.75 and 7.5 Hz)
Focal length	23 mm (0.89 in) or 38 mm (1.49 in)	Quantification Mode recording	Yes, with optional QL320 system
F-number	1.59	Non-radiometric IR video recording	MPEG4, up to 60 min/clip
Focus	Manual	Visual video recording	MPEG4, up to 25 min/clip
Zoom	1-8x continuous, digital zoom		
Detector data		Video streaming	
Detector type and pitch	Indium antimonide (InSb) focal plane array; 15 µm	Radiometric IR video streaming	Full dynamic streaming to PC using USB cable
Spectral range	3.2–3.4 µm	Non-radiometric IR video streaming	RTP/MPEG4
Sensor cooling	Sterling microcooler		
Image presentation and frame rate		Additional features	
Full frame rate	60 Hz	Built-in digital camera	3.2 Mpixels, autofocus, two video lamps
Display	800 × 480 pixel built-in, 4.3 in widescreen LCD	Laser	Class 2, activated by dedicated button
Viewfinder	800 × 480 pixel built-in, tiltable OLED	USB	USB Mini-B, 2.0 high speed
Automatic image adjustment	Continuous/manual, linear- or histogram-based	Video out	Digital video output (image)
Manual image adjustment	Level/span	Battery	Rechargeable 7.2 V Li-ion
Image modes	IR image, visual image, High Sensitivity Mode (HSM)	Battery capacity	4.4 Ah
Color palettes	Iron, gray, rainbow, rainbow HC, arctic, lava	Battery operating time	>3 hours at 25°C (68°F) and typical use
Measurement and analysis		Operating temperature range	–20°C to 50°C (–4°F to 122°F)
Temperature range	–20°C to 350°C (–4°F to 662°F)	Ambient temperature range	–30°C to 60°C (–22°F to 140°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)	Camera size (L × W × H)	245 × 166 × 164 mm (9.6 × 6.5 × 6.4 in)
Detected gases	Includes: methane, propane, benzene, butane, ethanol, ethane, ethylene, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, propylene, toluene, xylene	Camera weight w/battery	2.80 kg (6.18 lbs)
Spotmeters / area boxes	10 spotmeters; 5 boxes with max/min/average	Tripod mounting	UNC ¼"-20
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics	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)
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list		

Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

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