OPTICAL GAS IMAGING CAMERA

FLIR GF620™

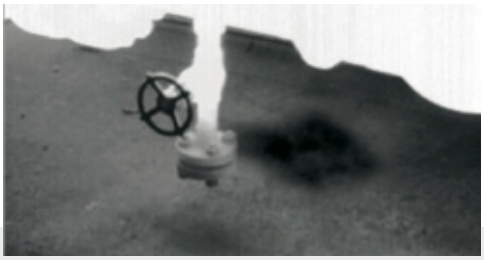
The FLIR GF620 is a high-resolution, high-sensitivity camera that helps detect and visualize methane and other volatile organic compounds. With the GF620's ground-breaking 640 × 480 IR detector, inspectors can safely scan for gases from greater distances than with previous, lower-resolution models. It's 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	GF620
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
Detector data	
Detector type and pitch	Indium antimonide (InSb) focal plane array; 15 µm
Spectral range	3.2–3.4 µm
Sensor cooling	Sterling microcooler
Image presentation and frame rate	
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
Measurement and analysis	
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

Storage of images and videos	
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
Video streaming	
Radiometric IR video streaming	Full dynamic streaming to PC using USB cable
Non-radiometric IR video streaming	RTP/MPEG4
Additional features	
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)

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

CORPORATE HEADQUARTERS
FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
PH: +1 877.773.3547

NASHUA
FLIR Systems, Inc.
9 Townsend West
Nashua, NH 03063
USA
PH: +1 866.477.3687

LATIN AMERICA
FLIR Systems Brasil
Av. Antonio Bardella, 320
Sorocaba, SP 18085-852
Brasil
PH: +55 15 3238 8070

CANADA
FLIR Systems, Ltd.
920 Sheldon Court
Burlington, ON L7L 5K6
Canada
PH: +1 800.613.0507

www.flir.com
NASDAQ: FLIR

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