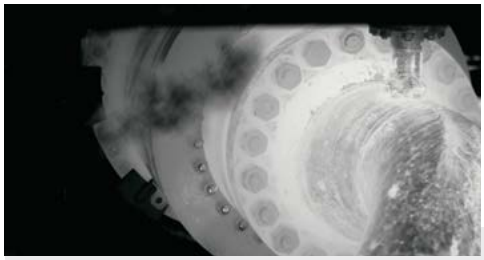
OPTICAL GAS IMAGING CAMERA

FLIR GFx320™

The FLIR GFx320 represents groundbreaking optical gas imaging technology for detecting methane, other hydrocarbons, and volatile organic compound (VOC) emissions in areas such as well sites and offshore platforms. This optical gas imaging camera is certified for use in hazardous locations, allowing the user to work quickly and confidently, and to scan for fugitive emissions in more areas than ever before.

www.flir.com/gfx320



GREATER LEAK REDUCTIONS, INCREASED PROFITS

Survey areas up to nine-times faster than with traditional methods, without halting operations

- Scan wide areas, then inspect thousands of components over the course of one survey
- Meet reporting requirements for visual images and location data without the need for extra equipment
- Quantify your losses and their effect on the bottom line by connecting with the optional QL320 system (sold separately)
- Eliminate the guesswork that delays repairs by pinpointing the exact source of emissions

SUPERIOR GAS VISUALIZATION FEATURES

Resolution, sensitivity, and image enhancements improve detection of even the smallest leaks

- Visualize hydrocarbon leaks with the sensitivity needed to comply with the US EPA's 0000a methane rule
- Ensure optimal contrast between gas compounds and the background with the calibrated temperature measurement feature
- Improve detection by engaging FLIR's High Sensitivity Mode (HSM) to accentuate plume movement

INNOVATIVE ERGONOMIC DESIGN

Built for comfort, with features that take the strain out of all-day surveys

- Inspect all day long with less fatigue thanks to tiltable eyepiece, adjustable LCD screen, and other ergonomic features
- Maintain three points of contact during operations with the camcorder-style construction
- Compliance for use in hazardous locations may reduce pre-survey paperwork, depending upon company protocols

SPECIFICATIONS

Image and optical data	GFx320
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ 30°C (86°F)
Field of view	14.5° × 10.8°
Focal length	38 mm
F-number	f/1.5
Focus	Manual
Zoom	1-8x continuous digital zoom
Digital image enhancement	Noise reduction filter, High Sensitivity Mode (HSM)
Detector data	
Detector type/spectral range	Cooled InSb focal plane array/3.2–3.4 µm
Detector pitch	30 µm
Sensor cooling	Stirling microcooler
Hazardous Location certifications	
Compliance	• ATEX/IECEx, Ex ic nC op is IIC T4 Gc II 3 G • ANSI/ISA-12.12.01-2013, Class I Division 2 • CSA 22.2 No. 213, Class I Division 2
Image presentation and frame rate	
Full frame rate	60 Hz
Display	Built-in widescreen, 4.3 in LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear- or histogram-based
Manual image adjustment	Level/span
Image modes	IR image, visual image, HSM
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)
Spotmeter	10
Area	5 boxes with max/min/average
Profile	1 live line (horizontal or vertical)
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Storage of images and videos	
Storage media	Removable SD or SDHC memory card
Image storage capacity	2000 standard JPEG images, 14-bit with measurement data included
Image storage modes	IR/visual (visual images can be automatically associated with corresponding IR images)
Periodic image storage	Every 10 seconds, up to 24 hours
Radiometric IR video recording	*.seq video clips to memory card (7.5 Hz, 15 Hz)
Non-radiometric IR video recording	MPEG4 (up to 60 min/clip); visual images can be automatically associated with corresponding non-radiometric IR video
Visual video recording	MPEG4 (25 min/clip)
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable
Non-radiometric IR video streaming	RTP/MPEG4
Additional features	
GPS	Location data automatically added to every image
Laser	Class 2; activated by dedicated button
USB	USB Mini-B for data transfer to and from PC
Video out	Digital video output (image)
Battery	Rechargeable Li-ion, 7.2 V
Battery operating time	> 3 hours at 25°C (77°F) and typical use
Battery charging time	2.5 h to 95% capacity; LED charging-status indicator
Start-up time	7 min. @ 25°C (77°F), typical
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	Optical gas imaging camera with lens, batteries (2 ea.), battery charger, power supply (including multiplugs), lens cap, hard transport case, straps (hand, neck, lens cap), cables (HDMI-DVI, HDMI-HDMI, USB), memory card, screwdriver TX20, printed documentation

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

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