



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.



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

| | | | |
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| 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 | | <ul style="list-style-type: none"> • 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 | |



The World's Sixth Sense®