



## FLIR G304™

Industry-Leading Optical Gas Imaging (OGI)  
Camera for Hydrofluorocarbons



The FLIR G304 is an innovative Optical Gas Imaging (OGI) camera used to detect possible hydrofluorocarbon, refrigerant, and other industrial gas leaks. Designed with your safety and efficiency in mind, this advanced cooled  $320 \times 240$  (76,800 pixels) resolution camera can detect dangerous and environmentally harmful refrigerant gases from safe distances. Reduce inspection time by scanning large areas without interfering or shutting down chemical plants or large-scale storage and refrigeration operations. Featuring a rotating, color, LCD touchscreen, the G304 is ideal for detecting gas in complex systems including chemical plants, food production and storage, and industrial air conditioning facilities. Combined with FLIR Ignite™ software, the FLIR G304 allows you to easily upload images and videos to the cloud where you can edit, organize, store, and share data.



[www.flir.com/G304](http://www.flir.com/G304)

### SUPERIOR GAS VISUALIZATION

Detect gas leaks accurately in real-time

- Efficiently scan thousands of components with FLIR's patented High-Sensitivity Mode (HSM)
- Measure temperatures from  $-40^{\circ}\text{C}$  to  $500^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $932^{\circ}\text{F}$ )
- Auto-adjust the level and span of your image with 1-Touch Level/Span
- Comfortably inspect facilities with superior ergonomics

### IMPROVED SOFTWARE INTEGRATION

Record and report findings efficiently with the FLIR ecosystem

- Effortlessly edit and store images in the cloud, and wirelessly transfer files using the included FLIR Ignite cloud service
- Easily incorporate with third-party software solutions
- Built in Wi-Fi and Bluetooth® allow you to connect to smartphones or tablets
- Conveniently navigate large areas with FLIR Inspection Route and GPS log on board polarized glasses

### BETTER ERGONOMICS FOR OPERATION

Comfortably interact with the camera

- Expand inspection capabilities with quick and easy exchangeable lens options
- View targets from any direction with rotating 10.16 cm (4 in) LCD touch screen
- Efficiently operate with improved touch screen Graphical User Interface (GUI)
- Advanced features to streamline the inspection process, including Multi-REC (recording mode)

For more information contact: [Sales@TeledyneFLIR.com](mailto:Sales@TeledyneFLIR.com)  
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[www.teledyneflir.com](http://www.teledyneflir.com)

## SPECIFICATIONS

| Detector and Optics Data           |  | FLIR G304                                                                                                                                                                                                                                                    |  |
|------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| IR Resolution                      |  | 320 × 240 pixels                                                                                                                                                                                                                                             |  |
| Thermal Sensitivity/NETD           |  | 15 mK at 30°C (86°F)                                                                                                                                                                                                                                         |  |
| Detector Type                      |  | Focal plane array (FPA), cooled QWIP                                                                                                                                                                                                                         |  |
| Spectral Range                     |  | 8.0 µm to 8.6 µm                                                                                                                                                                                                                                             |  |
| Detector Pitch                     |  | 30 µm                                                                                                                                                                                                                                                        |  |
| Sensor Cooling                     |  | Stirling Microcooler (FLIR MC-3)                                                                                                                                                                                                                             |  |
| Digital Image Enhancement          |  | High sensitivity mode (HSM), noise reduction filter                                                                                                                                                                                                          |  |
| Available Lenses                   |  | 24° × 18° (23 mm); 14.5° × 10.8° (38 mm)                                                                                                                                                                                                                     |  |
| F-Number                           |  | 1.59                                                                                                                                                                                                                                                         |  |
| Focus                              |  | Autofocus, Manual focus                                                                                                                                                                                                                                      |  |
| Image Presentation                 |  |                                                                                                                                                                                                                                                              |  |
| Display                            |  | 4", 640 × 480 pixel rotatable, touchscreen LCD                                                                                                                                                                                                               |  |
| Viewfinder                         |  | Built-in, tiltable OLED, 800 × 480 pixels                                                                                                                                                                                                                    |  |
| Image Presentation Modes           |  | IR image, visual image, high sensitivity mode (HSM)                                                                                                                                                                                                          |  |
| Color Palettes                     |  | Arctic, White hot, Black hot, Iron, Lava, Rainbow, Rainbow HC                                                                                                                                                                                                |  |
| Zoom                               |  | 1–8× continuous, digital zoom                                                                                                                                                                                                                                |  |
| Laser Pointer                      |  | Class 2                                                                                                                                                                                                                                                      |  |
| Measurement & Analysis             |  |                                                                                                                                                                                                                                                              |  |
| Measurement Temperature Range      |  | -20°C to 250°C (-4°F to 482°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)                                                                                                                                  |  |
| Image Analysis                     |  | 10 spots, 5 boxes with max/min/average, 1 line (horizontal or vertical), measurement corrections                                                                                                                                                             |  |
| Annotations                        |  |                                                                                                                                                                                                                                                              |  |
| Voice                              |  | 60 seconds with Bluetooth on still images and video                                                                                                                                                                                                          |  |
| Text                               |  | Text from predefined list or soft keyboard on touchscreen                                                                                                                                                                                                    |  |
| Image Sketch                       |  | Yes: on infrared only                                                                                                                                                                                                                                        |  |
| Communication & Data Storage       |  |                                                                                                                                                                                                                                                              |  |
| FLIR Inspection Route              |  | Enabled in the camera                                                                                                                                                                                                                                        |  |
| MultiREC Recording                 |  | Record multiple files automatically in customizable order                                                                                                                                                                                                    |  |
| GPS                                |  | Location data automatically added to every still image; first frame in video from built-in GPS; data logging feature                                                                                                                                         |  |
| Compass                            |  | Yes                                                                                                                                                                                                                                                          |  |
| Cloud Services (via Wi-Fi)         |  | FLIR Ignite for direct, secure image uploading, organizing, storage, and sharing (required firmware available)                                                                                                                                               |  |
| Storage Media                      |  | Removable SD card                                                                                                                                                                                                                                            |  |
| Image File Formats                 |  | Standard JPEG, measurement data included. Infrared-only mode.                                                                                                                                                                                                |  |
| Communication Interfaces           |  | USB 2.0, Bluetooth via headset, Wi-Fi, HDMI                                                                                                                                                                                                                  |  |
| Video Out                          |  | HDMI; DVI                                                                                                                                                                                                                                                    |  |
| Video Recording and Streaming      |  |                                                                                                                                                                                                                                                              |  |
| Radiometric IR Video Recording     |  | RTRR (.csq)                                                                                                                                                                                                                                                  |  |
| Non-Radiometric IR or Visual Video |  | H.264 to memory card                                                                                                                                                                                                                                         |  |
| Radiometric IR Video Streaming     |  | Over UVC                                                                                                                                                                                                                                                     |  |
| Non-Radiometric IR Video Streaming |  | H.264 (AVC) or MPEG4 over RTSP (Wi-Fi); MJPEG over UVC and RTSP (Wi-Fi)                                                                                                                                                                                      |  |
| Visual Recording                   |  | H.264 to memory card                                                                                                                                                                                                                                         |  |
| Environmental & Certifications     |  |                                                                                                                                                                                                                                                              |  |
| Operating Temperature Range        |  | -20°C to 50°C (-4°F to 122°F)                                                                                                                                                                                                                                |  |
| Storage Temperature Range          |  | -30°C to 60°C (-22°F to 140°F)                                                                                                                                                                                                                               |  |
| Encapsulation                      |  | IP54 (IEC 60529)                                                                                                                                                                                                                                             |  |
| Shock                              |  | 25 g (IEC 60068-2-27)                                                                                                                                                                                                                                        |  |
| Vibration                          |  | 2 g (IEC 60068-2-6)                                                                                                                                                                                                                                          |  |
| Additional Information             |  |                                                                                                                                                                                                                                                              |  |
| Battery Type                       |  | Rechargeable Li-ion battery; 7.4 V, charged in camera or separate 2-bay charger                                                                                                                                                                              |  |
| Battery Operating Time             |  | >2.5 hours at 25°C (68°F) and typical use                                                                                                                                                                                                                    |  |
| Battery Charging Time              |  | 2.5 hours to 95% capacity, charging status indicated by LEDs                                                                                                                                                                                                 |  |
| Camera Size                        |  | 251.6 mm × 164.5 mm × 170.9 mm (9.9 in × 6.48 in × 6.73 in)                                                                                                                                                                                                  |  |
| Camera Weight                      |  | 3 kg (6.18 lb)                                                                                                                                                                                                                                               |  |
| Mounting Interfaces                |  | UNC ¼"-20                                                                                                                                                                                                                                                    |  |
| Box Contents                       |  |                                                                                                                                                                                                                                                              |  |
| Packaging                          |  | Infrared camera with lens, battery; 2 pcs., battery charger, power supply including multi-plugs, hand strap, neck strap, lens cap, lens cap strap, memory card, HDMI-HDMI cable, USB cable, screwdriver TX20, printed documentation, and hard transport case |  |

Specifications are subject to change without notice.  
For the most up-to-date specs, go to [www.teledyneflir.com](http://www.teledyneflir.com)

For more information contact: [Sales@TeledyneFLIR.com](mailto:Sales@TeledyneFLIR.com)  
or to find your local support number, visit: [flir.com/contactsupport](http://flir.com/contactsupport)

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