

# 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)

## SPECIFICATIONS

<b>Detector and Optics Data</b>		<b>FLIR G304</b>	
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		
<b>Image Presentation</b>		<b>Communication &amp; Data Storage</b>	
Display	4", 640 × 480 pixel rotatable, touchscreen LCD	FLIR Inspection Route	Enabled in the camera
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels	MultiREC Recording	Record multiple files automatically in customizable order
Image Presentation Modes	IR image, visual image, high sensitivity mode (HSM)	GPS	Location data automatically added to every still image; first frame in video from built-in GPS; data logging feature
Color Palettes	Arctic, White hot, Black hot, Iron, Lava, Rainbow, Rainbow HC	Compass	Yes
Zoom	1–8× continuous, digital zoom	Cloud Services (via Wi-Fi)	FLIR Ignite for direct, secure image uploading, organizing, storage, and sharing (required firmware available)
Laser Pointer	Class 2	Storage Media	Removable SD card
<b>Measurement &amp; Analysis</b>		Image File Formats	Standard JPEG, measurement data included. Infrared-only mode.
Measurement Temperature Range	-20°C to 250°C (-4°F to 482°F)	Communication Interfaces	USB 2.0, Bluetooth via headset, Wi-Fi, HDMI
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)	Video Out	HDMI; DVI
Image Analysis	10 spots, 5 boxes with max/min/average, 1 line (horizontal or vertical), measurement corrections	<b>Video Recording and Streaming</b>	
<b>Annotations</b>		Radiometric IR Video Recording	RTRR (.csq)
Voice	60 seconds with Bluetooth on still images and video	Non-Radiometric IR or Visual Video	H.264 to memory card
Text	Text from predefined list or soft keyboard on touchscreen	Radiometric IR Video Streaming	Over UVC
Image Sketch	Yes: on infrared only	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
		<b>Environmental &amp; Certifications</b>	
		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)
		<b>Additional Information</b>	
		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
		<b>Box Contents</b>	
		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)



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