

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 320×240 (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.



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°C to 500°C (-40°F to 932°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

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