

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.



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°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	
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

For more information contact: Sales@TeledyneFLIR.com
or to find your local support number, visit: flir.com/contactsupport

This product is subject to United States export regulations and may require US authorization prior to export, reexport, or transfer to non-US persons or parties. Diversion contrary to US law is prohibited.

For assistance with confirming the Jurisdiction & Classification of Teledyne FLIR, LLC products, please contact exportquestions@flir.com.

©2022 Teledyne FLIR, LLC. All rights reserved.

Revised 03/01/23
G304_Datasheet-LTR 21-0000