

# FLIR G346™

Industry-Leading Optical Gas Imaging (OGI)  
Camera for Carbon Monoxide (CO)



The FLIR G346 is an innovative Optical Gas Imaging (OGI) camera used to detect carbon monoxide (CO), nitrous oxide (N<sub>2</sub>O) and other dangerous gases. Designed with your safety and efficiency in mind, this advanced cooled 320 × 240 (76,800 pixels) resolution camera can detect dangerous and environmentally harmful gases from safe distances. Reduce inspection time by scanning large areas without interfering or shutting down large-scale productions and manufacturing operations. Featuring a rotating, color LCD touchscreen, the G346 is ideal for detecting gas in complex systems including steel plants and other industrial manufacturing facilities. Combined with FLIR Ignite™ software, the FLIR G346 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 -20°C to 300°C (-4°F to 482°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

## 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 touchscreen
- Efficiently operate with improved touchscreen Graphical User Interface (GUI)
- Advanced features to streamline the inspection process, including Multi-REC (recording mode)

## SPECIFICATIONS

Detector and Optics Data		FLIR G346	
IR Resolution		320 × 240 pixels	
Thermal Sensitivity/NETD		15 mK at 30°C (86°F)	
Detector Type		Focal plane array (FPA), cooled InSb	
Spectral Range		4.52 μm to 4.67 μm	
Detector Pitch		30 μm	
Sensor Cooling		Stirling Microcooler (FLIR MC-3)	
Gas Sensitivity		CO: <10.4 ppm x m N <sub>2</sub> O: <2.5 ppm x m (ΔT = 10°C, Distance = 1 m)	
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 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)	
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	

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