FLIR G343™

Industry-Leading Optical Gas Imaging (OGI)
Camera for Carbon Dioxide (CO_2)

The FLIR G343 is an innovative Optical Gas Imaging (OGI) camera used to visualize possible carbon dioxide (CO_2) gas leaks. Whether or not CO_2 is a byproduct of a production process or used as a trace gas, the G343 is designed with your safety and efficiency in mind. This advanced cooled 320 × 240 (76,800 pixels) resolution camera can detect CO_2 leaks from a safe distance, reducing inspection time by scanning large areas without interfering or shutting down large-scale manufacturing operations. Featuring a rotating, color LCD touchscreen, the G343 is ideal for detecting CO_2 gas in complex systems including enhanced oil recovery, carbon capture systems, and hydrogen-cooled power generators. Combined with FLIR Ignite™ software, the FLIR G343 allows you to easily upload images and videos to the cloud where you can edit, organize, store, and share data.

www.flir.com/G343

SUPERIOR GAS VISUALIZATION

Detect gas leaks accurately in real-time

- Efficiently scan thousands of components with FLIR's patented High-Sensitivity Mode (HSM)
- 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)

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

www.teledyneflir.com

SPECIFICATIONS

Detector and Optics Data	FLIR G343
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	4.2 µm to 4.4 µm
Detector Pitch	30 µm
Sensor Cooling	Stirling Microcooler (FLIR MC-3)
Gas Sensitivity	CO_2: <1.1 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

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

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