



# FLIR GF343

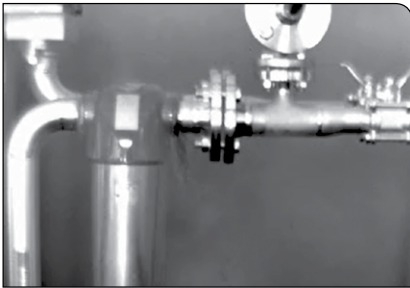
## Optical Gas Imaging Camera

The GF343 is an optical gas imaging camera that lets you see CO<sub>2</sub> leaks quickly, easily, and from a safe distance. Whether CO<sub>2</sub> is a byproduct of a production process, a trace gas used to detect leaks from power generators, or part of an Enhanced Oil Recovery program, fast and accurate detection of CO<sub>2</sub> leaks is key to keeping your operation running safely, efficiently, and profitably.

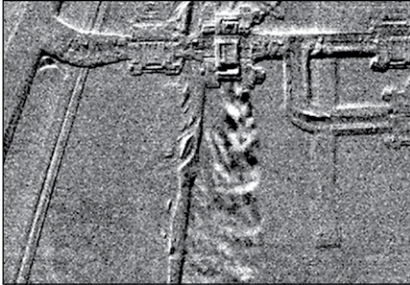
### Visualize Hydrogen Gas Leaks in Real Time

*Use safer CO<sub>2</sub> as tracer gas to localize leaks and verify repairs quickly, easily, and reliably*

- Find H<sub>2</sub> leaks in turbine generators by adding a small amount of CO<sub>2</sub> as a tracer. Inspections can be performed during operations with 3-4% CO<sub>2</sub> to maintain > 95% H<sub>2</sub> purity.
- Visualize the source of CO<sub>2</sub> leaks in Enhanced Oil Recovery (EOR) operations
- Discover CO<sub>2</sub> losses in a variety of industrial manufacturing, transportation, and storage uses



Spot hard-to-find CO<sub>2</sub> leaks



See even more with High Sensitivity Mode (HSM)



Leak in a 4-way valve dryer skid

### Decreases Downtime and Saves Money

*Detect CO<sub>2</sub> as a predictive maintenance tool to prevent downtime and inventory loss*

- Find and repair leaks sooner to avert unplanned outages
- Fast, non-contact survey method allows for inspections while equipment remains on-line
- Avoid expensive regulatory fines and loss of valuable inventory

### Improve Operations Safety and Protect the Environment

*Keep facilities safe while working towards a carbon-neutral operation*

- Improve efficiencies of EOR operations
- Stop leaks in carbon capture and storage operations
- Visually verify completed repairs so operations can continue safely

## Specifications

<b>Model</b>	<b>GF343</b>
Detector Type	Focal plane array, cooled InSb
Spectral Range	4.2 – 4.4 $\mu\text{m}$
Resolution	320 x 240 pixels
Detector Pitch	30 $\mu\text{m}$
NETD/Thermal Sensitivity	< 15 mK @ +30°C (+86°F)
Sensor Cooling	Stirling Microcooler (FLIR MC-3)
<b>Electronics / Imaging</b>	
Image Modes	IR image, visual image, High Sensitivity Mode (HSM)
Frame Rate (Full Window)	60 Hz
Dynamic Range	14-bit
Video Recording / Streaming	Real-time non-radiometric recording: MPEG4/H.264 (up to 60 min./clip) to memory card Real-time non-radiometric streaming: RTP/MPEG4
Visual Video	MPEG4 (25 min./clip) to memory card
Visual Image	3.2 MP from integrated visible camera
GPS	Location data stored with every image
Camera Control	Remote camera control via USB
<b>File Storage</b>	
Storage Media	Removable SD or SDHC memory card; two card slots
Image Storage Capacity	> 1200 images (JPEG) with post-process capability per GB on memory card
<b>Optics</b>	
Camera f/number	f/1.5
Available Fixed Lenses	14.5° (38 mm), 24° (23 mm)
Focus	Automatic (one touch) or manual (electric or on the lens)
<b>Image Presentation</b>	
On-Camera Display	Built-in widescreen, 4.3 in. LCD, 800 x 480 pixels
Automatic Gain Control	Continuous/manual, linear, histogram
Menu Commands	Level/span, auto adjust continuous/manual/semi-automatic, zoom, palette, start/stop recording, store image, playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Zoom	1-8x continuous, digital zoom
<b>General</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	IP 54 (IEC 60529)
Bump / Vibration	25 g (IEC 60068-2-27) / 2 g (IEC 60068-2-6)
Power	AC adapter 90-260 VAC, 50/60 Hz or 12 V from a vehicle
Battery System	Rechargeable Li-ion battery
Weight w/ Battery & Lens	2.48 kg (5.47 lb.)
Size (L x W x H) w/ Lens	306 x 169 x 161 mm (12.0 x 6.7 x 6.3 in.)
Mounting	Standard, 1/4"-20

Distributed by: GoThermal (Pty) Ltd / TeleEye (SA) (Pty) Ltd

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