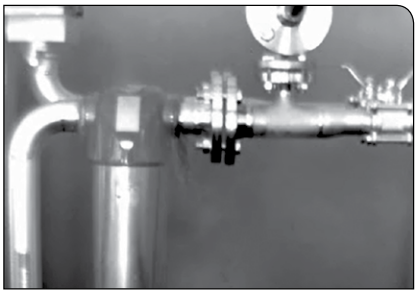
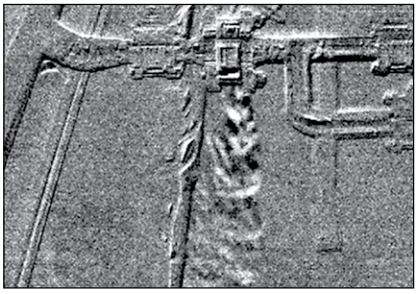
FLIR GF343

Optical Gas Imaging Camera

The GF343 is an optical gas imaging camera that lets you see CO_2 leaks quickly, easily, and from a safe distance. Whether CO_2 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_2 leaks is key to keeping your operation running safely, efficiently, and profitably.



Spot hard-to-find CO_2 leaks



See even more with High Sensitivity Mode (HSM)

Leak in a 4-way valve dryer skid

Visualize Hydrogen Gas Leaks in Real Time

Use safer CO_2 as tracer gas to localize leaks and verify repairs quickly, easily, and reliably

- Find H_2 leaks in turbine generators by adding a small amount of CO_2 as a tracer. Inspections can be performed during operations with 3-4% CO_2 to maintain > 95% H_2 purity.
- Visualize the source of CO_2 leaks in Enhanced Oil Recovery (EOR) operations
- Discover CO_2 losses in a variety of industrial manufacturing, transportation, and storage uses

Decreases Downtime and Saves Money

Detect CO_2 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

Model	GF343
Detector Type	Focal plane array, cooled InSb
Spectral Range	4.2 – 4.4 µm
Resolution	320 x 240 pixels
Detector Pitch	30 µm
NETD/Thermal Sensitivity	< 15 mK @ +30°C (+86°F)
Sensor Cooling	Stirling Microcooler (FLIR MC-3)
Electronics / Imaging	
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
File Storage	
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
Optics	
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)
Image Presentation	
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
General	
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 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Mounting	Standard, 1/4"-20

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