

FLIR GF-Series

FLIR GF346

Revolutionary thermal imaging camera for detecting carbon monoxide

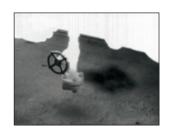
The new FLIR GF346 is a revolutionary thermal imaging camera capable of finding carbon monoxide and a number of other gases. It is unbeatable for detecting even the smallest leaks. The FLIR GF346 offers a complete unique method of tracing leaks to their source by visualizing this in an image.

- · Real-time visualization of gas leaks
- Can be used for a wide variety of thermal inspections
- Measures temperatures in a noncontact mode with an accuracy of +/-1%
- Temperature range: from -20°C to +300°C
- Internal data/video storage

- High sensitivity mode: detects even very small amounts of leaking gas
- Digital camera and GPS
- High-performance LCD and tiltable high-resolution viewfinder
- Lightweight and robust design
- Multi-angle handle with integrated direct-access buttons







Scanning large areas from a safe distance

FLIR GF346 can scan large areas rapidly and pinpoint leaks in real time. It is ideal for monitoring plants where it is difficult to reach components with contact measurement tools such as gas sniffers. Literally thousands of components can be scanned per shift without the need to interrupt the process. FLIR GF346 reduces repair downtime and provides verification of the process. And above all it is exceptionally safe, allowing potentially dangerous leaks to be monitored from a safe distance.

FLIR GF346 will significantly improve work safety, environmental, and regulatory compliance.

Detects the following gases:

- Acetonitrile
- Acetyl cyanide
- Arsine
- Bromine isocyanate
- Carbon monoxide
- Chlorine isocyanate
- Chlorodimethylsilane
- Cyanogen bromide
- Dichloromethylsilane
- Ethenone
- Ethyl thiocyanate
- Germane
- Hexyl isocyanide
- Ketene
- Methyl thiocyanate
- Nitrous oxide
- Silane

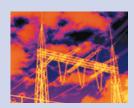


 $\label{thm:contrast} \begin{tabular}{ll} Tiltable, flip-out 4.3" High Contrast Color LCD allows you to view targets more safely from any angle. \end{tabular}$



Automatic (one Touch) and Manual Focus with 1-8x continuous digital zoom helps you to deliver the perfect picture at ease.

More than gas detection







The FLIR GF346 can be used for more than gas detection only. The camera can also be used for general predictive maintenance. High- and low voltage electrical installations, mechanical systems, pipework and insulation, it can all seamlessly be inspected with the FLIR GF346.

FLIR GF346 Technical Specifications

Imaging and optical data	
Field of view (FOV) / Minimum focus distance	24° × 18° / 0.3 m
Focal length	23 mm
F-number	1.5
Thermal sensitivity/NETD	<25 mK @ +30°C
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, High Sensitivity Mode (HSM)
Focal Plane Array (FPA) / Spectral range IR resolution	Cooled InSb / Built-in cold band pass filter 4.52 - 4.67 µm
	320 × 240 pixels
Detector pitch	30 µm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image modes	IR-image, visual image, High Sensitivity Mode (HSM)
Measurement	
Temperature range	-20 °C to +300 °C
Accuracy	+/- 1 °C or +/- 1% of reading for temperature range
•	0° C to +300 °C
Measurement analysis	1 0 0 00 1000 0
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or
	reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials
•	list
Set-up	HOT
Menu commands	Level, span
Mena Commanas	
	Auto adjust continuous/manual/semi-automatic
	Zoom
	Palette
	Overlay recording mode
	, ,
	Start/stop recording
	Start/stop recording
	Start/stop recording Store image
	Start/stop recording Store image Playback/recall image
Color palettes	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow
Color palettes Set-up commands	Start/stop recording Store image Playback/recall image
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Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS
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Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Non radiometric IR-video streaming	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264
Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Non radiometric IR-video streaming Digital camera	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card
Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264
Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Visual video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264 3.2 Mpixel, auto focus, and two video lamps
Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Visual video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button
Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer Laser Data communication interfaces	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button USB-A: Connect external USB device (e.g. memory stick)
Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer Laser Data communication interfaces USB	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: Data transfer to and from PC
Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Non radiometric IR-video streaming Digital camera Laser pointer Laser Data communication interfaces USB USB, standard	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: 20 High Speed
Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser Data communication interfaces USB USB, standard Video out	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: Data transfer to and from PC
Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer Laser Data communication interfaces USB USB, standard Video out Power system	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: Data transfer to and from PC USB Mini-B: 2.0 High Speed Digital Video Output (image)
Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer Laser Data communication interfaces USB USB, standard Video out Power system Battery type	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: 20 High Speed Digital Video Output (image) Rechargeable Li Ion battery
Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pata communication interfaces USB USB, standard Video out Power system Battery type Battery type Battery voltage	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: Data transfer to and from PC USB Mini-B: Data transfer to and from PC USB Mini-B: 20 High Speed Digital Video Uptut (image) Rechargeable Li Ion battery 7.2 V
Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer Laser Data communication interfaces USB USB, standard Video out Power system Battery type	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: Data transfer to and from PC USB Mini-B: 2.0 High Speed Digital Video Output (image) Rechargeable Li lon battery 7.2 V > 3 hours at 25°C and typical use
Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer Laser Data communication interfaces USB USB, standard Video out Power system Battery type Battery voltage Battery operating time Charging system	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: 20 High Speed Digital Video Output (image) Rechargeable Li Ion battery 7.2 V > 3 hours at 25°C and typical use In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Set-up commands Storage of images Image storage type Image storage capacity Image storage mode Periodic image storage File formats GPS Video recording and streaming Non radiometric IR-video recording Visual video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer Laser Data communication interfaces USB USB, standard Video out Power system Battery type Battery voltage Battery voltage Battery voltage Battery operating time	Start/stop recording Store image Playback/recall image Iron, Gray, Rainbow 1 programmable button, local adaptation of units, language, date and time formats Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images Visual image can automatically be associated with corresponding IR image Every 10 seconds up to 24 hours Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS MPEG4/H.264 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: 20 High Speed Digital Video Output (image) Rechargeable Li Ion battery 7.2 V > 3 hours at 25°C and typical use In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
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Environmental data	
Operating temperature range	-20°C to +50°C
Storage temperature range	-30°C to +60°C
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative
	humidity +25°C to +40°C
	(+77°F to +104°F) (2 cycl)
EMC	EN61000-6-4 (Emission)
	EN61000-6-2 (Immunity)
	FCC 47 CFR Part 15 class A
	(Emission)
	EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Camera weight, incl. lens and	2.48 kg
battery	
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm
Tripod mounting	UNC, ¼"-20
Housing material	Aluminium, Magnesium
Grip material	TPE Thermoplastic Elastomers
•	•

Scope of delivery
Infrared camera with lens
Hard transport case
Battery charger
Battery, 2 ea.
Calibration certificate
Downloads brochure
FLIR QuickReport™ PC software CD-ROM
FLIR VideoReport™ PC software CD-ROM
HDMI-DVI cable
HDMI-HDMI cable
Lens cap (mounted on lens)
Memory card
Memory card adapter
Power supply, incl. multi-plugs
Printed Getting Started Guide
Registration card
Service & training brochure
Shoulder strap
USB cable
User documentation CD-ROM



Applications:



Steel manufacturing



Petrochemical & Chemical industries

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