

### **FLIR GF-Series**

# FLIR GF306

Detects the Expensive and Harmful SF6 Gas

FLIR GF306 detects and visualizes SF6 (Sulfur Hexafluoride) and 25 other harmful gases quickly, from a safe distance and without the need to interrupt your plant's production process. SF6 is a gas used in electrical substations as at electric power plants as an insulator in circuit breakers and switchgear. The gas is also used in magnesium production and semiconductor manufacturing. SF6 is harmful to the environment. It has a 24,000 times higher global warming potential than CO2 emissions - more than any other greenhouse gas. Early detection and repair of leaks is a contribution of electric power plants to protect the environment.

- Find SF6 leaks quickly and safely
- Excellent Thermal Sensitivity (<25mK)
- High performance LCD & Tiltable high resolution viewfinder delivers a bright and vivid image in poor lighting environment or under sunlight
- User-inspired Ergonomics: Rotating Handle, Direct Access Buttons
- Embedded GPS Data and Digital images allow you to identify precise locations of inspected area
- Compatible with FLIR QuickReport and FLIR Reporter software for professional inspection report





Captured SF6 leak

#### **Detects SF**<sub>6</sub>

FLIR GF306 enables utilities, manufacturers, and consultants to proactively diagnose leaks of Sulfur Hexafluoride SF6 in electrical substations and equipment. SF6 has a significant impact on global climate change with 23,900 times the global warming potential of CO2 and with an atmospheric lifetime of 3,200 years.

#### Lab tested to detect a wide range of gases

- Sulfur Hexafluoride (SF6)
- Ammonia
- · Acetyl chloride
- Allyl Bromide
- Allyl Chloride
- Allyl Fluoride
- 1,3-Butadiene
- Ethylene
- Freon® 11
- Freon® 12
- Freon® 112
- Freon® 113

- Freon® 114
- Methylsilane
- Methyl
- Vinyl Ketone
- · Methyl Vinyl Ether
- Propenal
- Propene
- · Vinyl Ether
- Styrene
- Trichloroethylene
- Vinyl
- Chloride



Capture gas leak from production site



Gas detection from safe distance

## FLIR GF306 Technical Specifications

Imaging and optical data	
Field of view (FOV)	14.5° x 10.8°
Minimum focus distance	0.5 m
Field of view (FOV) / Minimum focus distance	14.5° x 10.8° / 0.5 m
Lens identification	Automatic
F-number	1.5
Thermal sensitivity/NETD	<25 mK @ +30°C
Focus	Automatic or manual (electric or on the lens)
Digital zoom	1–8× continuous, digital zoom
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, scene based NUC, High Sensitivity Mode (HSM)
Detector type	Focal Plane Array (FPA), cooled QWIP
Spectral range	10–11 µm
Focal Plane Array (FPA) / Spectral range	Cooled QWIP / 10–11 µm
IR resolution	320 × 240 pixels
Detector pitch	30 µm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Electronics and data rate	
Full frame rate	60 Hz
System specification	On how we take to a second a size (internal concerned to a second to )
Service statistics	Up hours, watchdog, error logging (internal camera storage media)
Image presentation	Duilt is wideessen A 2 is LCD 2000 v 400 simple
Video output	Built-In Widescreen, 4.3 In. LCD, 800 × 480 pixels
Viewfinder	RUIVII Ruilt in tiltable I CD. 900 490 nivele
Automotio impero adjustment	Cantinuous (magualu linear ar bistorram based
Automatic image adjustment	Continuous/manual; imear or histogram based
Imaga madaa	Level/span
Massurement	אריוויומעט, אוטעמ וווומעט, ווועוו טפווטועאוע אוטעט (הטאו)
Object temperature range	40 to + 500°C
Tomporature range	-40 to +500°C
Measurement englysis	-40 t0 +500 C
Emissivity correction	Variable from 0.01 to 1.0 or calested from aditable materials list
Beflected apparent temperature correction	Automatic based on input of reflected temperature
Measurement corrections	Reflected temperature distance atmospheric transmission humidity
Set-up	nenected temperature, distance, admospheric transmission, namidity
Menu commands	
	Auto adjust continuous/manual/semi-automatic
	Zoom
	20011
	Start/stop recording
	Store image
	Playback/recall image
Set-up commands	Playback/recall image Local adaptation of units, language, date and time formats
Set-up commands Web interface	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images
Set-up commands Web interface Storage of images	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images
Set-up commands Web interface Storage of images Image storage	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or
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Set-up commands Web interface Storage of images Image storage Image storage type	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots
Set-up commands Web interface Storage of images Image storage Image storage type Image storage capacity Image storage capacity	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)
Set-up commands Web interface Storage of images Image storage Image storage type Image storage capacity Image storage mode	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual images.
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Set-up commands Web interface Storage of images Image storage Image storage type Image storage capacity Image storage mode File formats Cop	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual image. Visual image is automatically associated with corresponding IR image. Standard JPEG, 14 bit measurement data included Locating the optical standard SDHC Memory Card (SD or SDHC Card)
Set-up commands Web interface Storage of images Image storage Image storage type Image storage capacity Image storage mode File formats GPS Video recogning and storaging	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual images. Visual images. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS
Set-up commands Web interface Storage of images Image storage Image storage type Image storage capacity Image storage mode File formats GPS Video recording and streaming New solicimential Buildon seconding	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual images. Visual image is automatically associated with corresponding IR image. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS
Set-up commands Web interface Storage of images Image storage Image storage type Image storage capacity Image storage mode File formats GPS Video recording and streaming Non radiometric IR-video recording Non radiometric IR-video recording	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual images. Visual image is automatically associated with corresponding IR image. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS H.264 (60 minutes) to memory card H 264 ord MBEC 4
Set-up commands Web interface Storage of images Image storage Image storage type Image storage capacity Image storage mode File formats GPS Video recording and streaming Non radiometric IR-video recording Non radiometric IR-video streaming Divited camera	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual images. Visual image is automatically associated with corresponding IR image. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS H.264 (60 minutes) to memory card H.264 and MPEG-4
Set-up commands Web interface Storage of images Image storage type Image storage capacity Image storage capacity Image storage mode File formats GPS Video recording and streaming Non radiometric IR-video recording Non radiometric IR-video streaming Digital camera Built is divide camera	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual image. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS H.264 (60 minutes) to memory card H.264 and MPEG-4 2 3 Maizel, auto focus, and two video longe.
Set-up commands Web interface Storage of images Image storage Image storage type Image storage capacity Image storage mode File formats GPS Video recording and streaming Non radiometric IR-video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual images. Visual image is automatically associated with corresponding IR image. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS H.264 (60 minutes) to memory card H.264 and MPEG-4 3.2 Mpixel, auto focus, and two video lamps
Set-up commands     Web interface     Storage of images     Image storage     Image storage type     Image storage capacity     Image storage mode     File formats     GPS     Video recording and streaming     Non radiometric IR-video recording     Non radiometric IR-video streaming     Digital camera     Built-in digital camera     Laser	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual images. Visual images. Visual image is automatically associated with corresponding IR image. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS H.264 (60 minutes) to memory card H.264 and MPEG-4 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button.
Set-up commands Web interface Storage of images Image storage Image storage type Image storage capacity Image storage mode File formats GPS Video recording and streaming Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer Laser Laser classification	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual images. Visual image is automatically associated with corresponding IR image. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS H.264 (60 minutes) to memory card H.264 and MPEG-4 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button Class 2
Set-up commands Web interface Storage of images Image storage Image storage type Image storage capacity Image storage mode File formats GPS Video recording and streaming Non radiometric IR-video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser classification Laser two	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual images. Visual image is automatically associated with corresponding IR image. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS H.264 (60 minutes) to memory card H.264 and MPEG-4 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button Class 2 Semiconductor AlGalnP diode laser 1 mW 635 nm (red)
Set-up commands Web interface Storage of images Image storage type Image storage capacity Image storage mode File formats GPS Video recording and streaming Non radiometric IR-video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer Laser classification Laser type Date communication interfaces	Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IR/visual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
Set-up commands     Web interface     Storage of images     Image storage type     Image storage capacity     Image storage capacity     Image storage mode     File formats     GPS     Video recording and streaming     Non radiometric IR-video streaming     Digital camera     Laser classification     Laser classification     Laser type     Data communication interfaces	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual images. Visual image is automatically associated with corresponding IR image. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS H.264 (60 minutes) to memory card H.264 and MPEG-4 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button Class 2 Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
Set-up commands Web interface Storage of images Image storage Image storage type Image storage capacity Image storage capacity Image storage mode File formats GPS Video recording and streaming Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer Laser Laser classification Laser type Data communication interfaces Interfaces	Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IR/visual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed, HDMI
Set-up commands Web interface Storage of images Image storage Image storage type Image storage capacity Image storage mode File formats GPS Video recording and streaming Non radiometric IR-video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer Laser classification Laser stype Data communication interfaces Interfaces Computer interfaces IISB	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual images. Visual image is automatically associated with corresponding IR image. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS H.264 (60 minutes) to memory card H.264 and MPEG-4 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button Class 2 Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red) USB 2.0 High Speed, HDMI USB 2.0 High Speed, HDMI USB 2.0 High Speed, HDMI
Set-up commands Web interface Storage of images Image storage of Image storage capacity Image storage capacity Image storage mode File formats GPS Video recording and streaming Non radiometric IR-video recording Non radiometric IR-video streaming Digital camera Laser pointer Laser pointer Laser classification Laser type Data communication interfaces Interfaces Computer interfaces USB	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual images. Visual image is automatically associated with corresponding IR image. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS H.264 (60 minutes) to memory card H.264 and MPEG-4 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button Class 2 Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red) USB 2.0 High Speed, HDMI USB 2.0 High Speed, HDMI
Set-up commands Web interface Storage of images Image storage type Image storage capacity Image storage capacity Image storage mode File formats GPS Video recording and streaming Non radiometric IR-video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer Laser type Data communication interfaces Interfaces Computer interfaces USB USB	Description   Description
Set-up commands     Web interface     Storage of images     Image storage     Image storage type     Image storage capacity     Image storage capacity     Image storage mode     File formats     GPS     Video recording and streaming     Non radiometric IR-video streaming     Digital camera     Laser pointer     Laser classification     Laser type     Data communication interfaces     USB     USB, standard     USB, connector type	Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IR/visual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed
Set-up commands     Web interface     Storage of images     Image storage     Image storage capacity     Image storage capacity     Image storage capacity     Image storage capacity     Image storage mode     File formats     GPS     Video recording and streaming     Digital camera     Built-in digital camera     Laser pointer     Laser classification     Laser type     Data communication interfaces     Computer interfaces     USB     USB, standard     USB, connector type	Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IR/visual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed     USB 4.0 connector
Set-up commands Web interface Storage of images Image storage of Image storage type Image storage capacity Image storage mode File formats GPS Video recording and streaming Non radiometric IR-video recording Non radiometric IR-video streaming Digital camera Laser pointer Laser classification Laser pointer Laser classification Laser pointer Laser classification Laser stype Data communication interfaces Interfaces Computer interfaces USB, standard USB, connector type Video	Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IR/visual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed, HDMI     USB 2.0 High Speed, USB     USB 4.0 High Speed     USB 4.0 High Speed     USB 4.0 High Speed     USB 2.0 High Speed     USB 2.0 High Speed     USB A.0 High Speed     USB Mini-B: Data transfer to and from PC     USB A.0 nenector     USB Mini-B: connector     HOMI
Set-up commands Web interface Storage of images Image storage type Image storage capacity Image storage capacity Image storage mode File formats GPS Video recording and streaming Non radiometric IR-video recording Non radiometric IR-video streaming Digital camera Laser pointer Laser pointer Laser classification Laser type Data communication interfaces Interfaces Computer interfaces USB USB, standard USB, connector type Video Power system	Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IRvisual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed
Set-up commands     Web interface     Storage of images     Image storage     Image storage type     Image storage capacity     Image storage capacity     Image storage capacity     Image storage mode     File formats     GPS     Video recording and streaming     Digital camera     Laser     Laser classification     Laser type     Data communication interfaces     Interfaces     Computer interfaces     USB, standard     USE, connector type     Video     Power system     Battery	Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IR/visual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed, HDMI     USB 2.0 High Speed     USB A. cono
Set-up commands     Web interface     Storage of images     Image storage     Image storage type     Image storage capacity     Image storage capacity     Image storage capacity     Image storage mode     File formats     GPS     Video recording and streaming     Digital camera     Built-in digital camera     Laser pointer     Laser classification     Laser type     Data communication interfaces     Computer interfaces     USB     USB, standard     USB, connector type     Video     Power system     Battery     Battery type	Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IR/visual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed     USB 3.0 Nunetcor<
Set-up commands Web interface Storage of images Image storage of Image storage type Image storage capacity Image storage mode File formats GPS Video recording and streaming Non radiometric IR-video recording Non radiometric IR-video streaming Digital camera Laser pointer Laser classification Laser classification Laser stype Data communication interfaces Interfaces Computer interfaces USB USB, standard USB, connector type Video Power system Battery Battery voltage	Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IR/visual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed, HDMI     USB 2.0 High Speed, HDMI     USB 2.0 High Speed     USB 4.0 High Speed     USB 2.0 High Speed     USB 3.0 High Speed     USB 4.0 nencetor     USB 4.0 nencetor     USB 4.0 nencetor     USB 4.0 nen
Set-up commands     Web interface     Storage of images     Image storage     Image storage capacity     Image storage capacity     Image storage capacity     Image storage mode     File formats     GPS     Video recording and streaming     Non radiometric IR-video streaming     Digital camera     Laser pointer     Laser classification     Laser classification     Laser classification interfaces     Interfaces     Computer interfaces     USB, standard     USB, standard     USB, standard     USB, standard     USB, standard     USB, standard     Battery type     Battery type     Battery voltage     Battery operating time	Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IRvisual images.     Visual images is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed, HDMI     USB 2.0 High Speed     USB 2.0 High Speed     USB 2.0 High Speed     USB 2.0 High Speed     USB A: connect external USB device (e.g. memory stick)     USB Mini-B: connector     USB Mini-B: connector     USB Mini-B: connector     HDMI     FLIR propriety Li lon, 2 hours operating time     Rechargeable Li lon battery     7.2 V     > 2 hours
Set-up commands     Web interface     Storage of images     Image storage     Image storage type     Image storage capacity     Image storage capacity     Image storage mode     File formats     GPS     Video recording and streaming     Digital camera     Built-in digital camera     Laser classification     Laser type     Data communication interfaces     Interfaces     Computer interfaces     USB, standard     USE, connector type     Video     Power system     Battery voltage     Battery voltage     Battery operating time     Charging system	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual images. Visual image is automatically associated with corresponding IR image. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS H.264 (60 minutes) to memory card H.264 and MPEG-4 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button Class 2 Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red) USB 2.0 High Speed, HDMI USB 2.0 High Speed USB-A: Connect external USB device (e.g. memory stick) USB 2.0 High Speed USB-A: connector USB 2.0 High Speed USB-A: connector USB 2.0 High Speed USB-A: connector USB Mini-B: Data transfer to and from PC USB 2.0 High Speed USB-A: connector USB Mini-B: Data transfer to and from PC USB 2.0 High Speed USB-A: Connector USB Mini-B: Data transfer to and from PC USB 2.0 High Speed USB-A: Connector USB Mini-B: Data transfer to and from PC USB 2.0 High Speed USB-A: Connector USB Mini-B: Data transfer to and from PC USB 2.0 High Speed ISB-A: Connector USB Mini-B: Data transfer to and from PC USB 2.0 High Speed ISB-A: Connector USB Mini-B: Data transfer to and from PC USB A: Connector USB Mini-B: Data transfer to and from PC USB A: Connector USB Mini-B: Data transfer to and from PC USB A: Connector USB Mini-B: Data transfer to and from PC USB A: Connector USB Mini-B: Data transfer to and from PC USB A: Connector USB Mini-B: Data transfer to and from PC USB A: Connector USB Mini-B: Data transfer to and from PC USB A: Connector HDMI
Set-up commands     Web interface     Storage of images     Image storage     Image storage capacity     Non radiometric IR-video streaming     Digital camera     Built-in digital camera     Laser pointer     Laser pointer     Laser type     Data communication interfaces     Computer interfaces     Loss type     Data communication interfaces     USB     USB, connector type     Video     Power system     Battery woltage     Battery voltage <td>Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     &gt; 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IR/visual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed     USB 3.0 High Speed     USB 4.0 connector     USB Mini-B connect</td>	Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IR/visual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed     USB 3.0 High Speed     USB 4.0 connector     USB Mini-B connect
Set-up commands     Web interface     Storage of images     Image storage     Image storage capacity     Image storage capacity     Image storage capacity     Image storage mode     File formats     GPS     Video recording and streaming     Non radiometric IR-video recording     Non radiometric IR-video streaming     Digital camera     Built-in digital camera     Laser pointer     Laser classification     Laser type     Data communication interfaces     Interfaces     Computer interfaces     USB, standard     USB, connector type     Video     Power system     Battery     Battery voltage     Battery operating time     Charging system     Charging time     Charging time	Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IR/visual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed, HDMI     USB 2.0 High Speed, USB     USB X.0 Connect external USB device (e.g. memory stick)     USB Mini-B: Data transfer to and from PC     USB Mini-B: Connector     USB Mini-B: Connector     USB Mini-B: Connector     USB Mini-B: Connector     HDMI     FLIR propriety Li lon, 2 hours operating time     Rechargeable Li on battery     7.2 V
Set-up commands     Web interface     Storage of images     Image storage     Image storage capacity     Image storage mode     File formats     GPS     Video recording and streaming     Digital camera     Laser classification     Laser type     Data communication interfaces     USB, connector type     Video	Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IR/visual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed, HDMI     USB 2.0 High Speed     USB 2.0 High Speed     USB 4.0 High Speed     USB 2.0 High Speed     USB 2.0 High Speed     USB 4.0 High Speed     USB Mini-B connector     USB Mini-B connector     USB Mini-B connector     HDMI     FLIR propriety Li lon, 2 hours operating time     Rechargeable Li lon battry     7.2 V     <
Set-up commands     Web interface     Storage of images     Image storage     Image storage type     Image storage capacity     Image storage capacity     Image storage mode     File formats     GPS     Video recording and streaming     Digital camera     Laser     Laser classification     Laser type     Data communication interfaces     Interfaces     Computer interfaces     USB, standard     USB, connector type     Video     Power system     Battery voltage     Battery voltage     Battery voltage     Battery operating time     Charging system     Charging time     External power operation     DC operation	Playback/recall image Local adaptation of units, language, date and time formats Admin camera setup and viewing IR images Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC). Removable SD and SDHC Memory Card, two card slots > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card) IR/visual images. Visual image is automatically associated with corresponding IR image. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS H.264 (60 minutes) to memory card H.264 and MPEG-4 3.2 Mpixel, auto focus, and two video lamps Activated by dedicated button Class 2 Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red) USB 2.0 High Speed, HDMI USB 2.0 High Speed USB-A: Connect external USB device (e.g. memory stick) USB 2.0 High Speed USB-A: connector USB 2.0 High Speed USB-A: connector USB 2.0 High Speed IUSB-A: connector USB 2.0 High Speed IUSB-A: connector USB Mini-B: Data transfer to and from PC USB 2.0 High Speed IUSB-A: connector USB Mini-B: Connector HDMI FLIR propriety Li lon, 2 hours operating time Rechargeable Li lon battery 7.2 V > 2 hours at 25°C and typical use In camera (AC adapater or 12 V from a vehicle) or 2 bay charger 2.5 h to 95% capacity, charging status indicated by LED's AC adapter 90–280 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional) 10.8 to 16V OC, Polarity protected (proprietary orotected)
Set-up commands     Web interface     Storage of images     Image storage     Image storage capacity     Non radiometric IR-video streaming     Digital camera     Laser pointer     Laser pointer     Laser type     Data communication interfaces     Computer interfaces     USB     USB, connector type     Video     Power system     Battery type     Battery obrating time     Charging type     Battery operating time     Charging time <td>Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     &gt; 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IR/visual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed     USB 3.0 connector     USB Mini-B: connector     USB Mini-B connector     HDMI     FLIR propriety Li lon, 2 hours operating time     Rechargeable Li lon battery     7.2 V     &gt; hours at 25°C and typical use     In camera (AC adapter or 12 V from a vehicle</td>	Playback/recall image     Local adaptation of units, language, date and time formats     Admin camera setup and viewing IR images     Standard JPEG, including measurement data, on 4 GB Memory Card (SD or SDHC).     Removable SD and SDHC Memory Card, two card slots     > 5000 images (JPEG) with post process capability (4 GB SD or SDHC Card)     IR/visual images.     Visual image is automatically associated with corresponding IR image.     Standard JPEG, 14 bit measurement data included     Location data automatically added to every image from built-in GPS     H.264 (60 minutes) to memory card     H.264 and MPEG-4     3.2 Mpixel, auto focus, and two video lamps     Activated by dedicated button     Class 2     Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)     USB 2.0 High Speed     USB 3.0 connector     USB Mini-B: connector     USB Mini-B connector     HDMI     FLIR propriety Li lon, 2 hours operating time     Rechargeable Li lon battery     7.2 V     > hours at 25°C and typical use     In camera (AC adapter or 12 V from a vehicle

Environmental data –20°C to +40°C Operating temperature range -30°C to +60°C Storage temperature range IEC 68-2-30/24 h 95% relative Humidity (operating and storage) humidity +25°C to +40°C (2 cycl) 73/23EEC, 89/336/EEC, 2002/95/ Directives EC, 2002/96/EC EMC EN61000-6-3 (Emission) EN61000-6-2 (Immunity) FCC 47 CFR Part 15 class B (Emission) EN 61 000-4-8, L5 EN/UL/CSA 60950-1 Encapsulation IP 54 (IEC 60529) 25 g (IEC 60068-2-29) Bump Vibration 2 g (IEC 60068-2-6) Physical data Camera weight, incl. lens and excl. 2.16 kg battery Camera weight, incl. lens and 2.4 kg battery Battery weight 0.24 kg Camera size, excl. lens (L  $\times$  W  $\times$  H)  $284 \times 169 \times 161 \text{ mm}$ Cameras size, incl. lens  $(L \times W \times H)$  $305\times169\times161~mm$ Battery size (L  $\times$  W  $\times$  H)  $141 \times 47 \times 28 \text{ mm}$ Battery charger size  $(L \times W \times H)$ 158 × 122 × 25 mm Tripod mounting Standard, 1/4"-20

Aluminium, Magnesium

Plastics

TPE Thermoplastic Elastomer

Seens of delivery
Scope of derivery
Packaging, contents
Infrared camera
Standard Lens, 14.5° (Ge)
Shipping case
Lens cap (mounted on lens)
Lens cap (2 ea., backside of lens and opening on camera body)
Lens cap strap, 2 ea.
Shoulder strap
Batteries 2 ea. (1 of the batteries inside camera)
Charger
Power supply
Power supply cord
HDMI cable
USB cable
SD card
SD card adapter (connects via USB to PC)
Getting Started Guide (printed)
Manual for GF-series on CD
Video Report 1.0 with manual on CD
Lens Cleaning Cloth
Video Report 1.0 with manual on CD
System Calibration Certificate
Warranty extension card or Registration card

Housing material

Grip material





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