

P/N: 84102-0102

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Website

http://www.flir.com

Customer support

http://support.flir.com

Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



General description

The FLIR GF620 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF620 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

Benefits:

- Improved efficiency: The FLIR GF620 reduces revenue loss by pinpointing gas leaks quickly and
 efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be
 scanned rapidly and without the need to interrupt the industrial process. The FLIR GF620 is also
 used for temperature measurement, which makes it even more useful for predictive maintenance.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF620 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF620 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

Imaging and optical data

imaging and optical data		
IR resolution	640×480 pixels	
Thermal sensitivity/NETD	20 mK at +30°C (+86°F)	
Field of view (FOV)	24° × 18°	
Minimum focus distance	0.3 m (1.0 ft.)	
Focal length	23 mm (0.89 in.)	
F-number	1.59	
Focus	Manual focus	
Zoom	1-8× continuous, digital zoom	
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)	



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Detector data	I	
Detector type	Focal plane array (FPA), cooled InSb	
Spectral range	3.2–3.4 μm	
Detector pitch	15 μm	
Sensor cooling	Stirling Microcooler (FLIR MC-3)	
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene	
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 presentation modes		
Image modes	IR image, visual image, high sensitivity mode (HSM)	
Measurement		
Temperature range	–20°C to +350°C (–4°F to +662°F)	
Accuracy	\pm 1°C (\pm 1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or \pm 2% of reading for temperature range (>+100°C, >+212°F)	
Measurement analysis		
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	
Reflected apparent temperature correction	Automatic, based on input of reflected temperature	
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics	



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Set-up		
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 	
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats	
Storage of images		
Storage media	Removable SD or SDHC memory card	
Image storage capacity	500 images (JPEG) with post process capability per GB on memory card	
Image storage mode	 IR/visual images Visual image can automatically be associated with corresponding IR image 	
File formats	Standard JPEG, 14 bit measurement data included	
Geographic Information System		
GPS	Location data automatically added to every image from built-in GPS	
Video recording in camera		
Radiometric IR video recording	*.seq video clips to memory card (3.75 and 7.5 Hz)	
Non-radiometric IR video recording	 MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video. 	
Visual video recording	MPEG4 (25 minutes/clip) to memory card	
Quantification mode	Saves up to 500 image frames in a video sequence with quantification meta data embedded for post-processing with QL320.	
Video streaming		
Radiometric IR video streaming	 Full dynamic to PC using USB cable. PC software capable of displaying the video stream include the following: FLIR IR Camera Player FLIR ResearchIR 	
Non-radiometric IR video streaming	FLIR Tools RTP/MPEG4	
-		
Digital camera	2.2 Maivala auto fogua and two video larger	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps	



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Laser pointer		
Laser	Activated by dedicated button	
Laser classification	Class 2	
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)	
USB		
USB	USB Mini-B: Data transfer to and from PC	
USB, standard	USB Mini-B: 2.0 high speed	
Composite video		
Video out	Digital video output (image)	
Power system		
Battery type	Rechargeable Li ion battery	
Battery voltage	7.2 V	
Battery capacity	4.4 Ah	
Battery operating time	> 3 hours at 25°C (+68°F) and typical use	
Battery charging	2-bay charger or AC adapter 90-260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)	
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger	
Charging time	2.5 h to 95% capacity, charging status indicated by LED's	
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113° F)	
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)	
DC operation	8 to 15.3 V DC, polarity protected (proprietary protected)	
Power	8.5 W typically	
Start-up time	Typically 7 min. at 25°C (+77°F)	
Environmental data		
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)	
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)	
Low voltage	73/23/EEC	
RoHS	2011/65/EU	
WEEE	2012/19/EU	
EMC	 The Electromagnetic Compatibility (EMC) Directive 2014/30/EU 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)	
Shock	25 g (IEC 60068-2-27)	



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Environmental data		
Vibration	2 g (IEC 60068-2-6)	
Safety	EN/UL/IEC 60950-1	
Physical data		
Camera weight, incl. battery	2.80 kg (6.18 lbs.)	
Camera weight, excl. battery	2.59 kg (5.71 lbs.)	
Battery weight	0.21 kg (0.47 lbs.)	
Camera size (L \times W \times H)	245 × 166 × 164 mm (9.6 × 6.5 × 6.4 in.)	
Battery size $(L \times W \times H)$	141 × 43 × 28 mm (5.5 × 1.7 × 1.1 in.)	
Battery charger size $(L \times W \times H)$	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)	
Tripod mounting	UNC 1/4"-20	
Housing material	Aluminum, magnesium, silicone	
Shipping information		
Packaging, type	Cardboard box	
List of contents	 Attachment screw Battery charger Battery, 2 ea. Hand strap Hard transport case HDMI-DVI cable HDMI-HDMI cable Infrared camera with lens Lens cap (mounted on lens) Lens cap strap Memory card Neck strap Power supply, incl. multi-plugs Printed documentation Screwdriver TX20 USB cable 	
EAN-13	7332558014370	
UPC-12	845188016425	
Country of origin	Sweden	

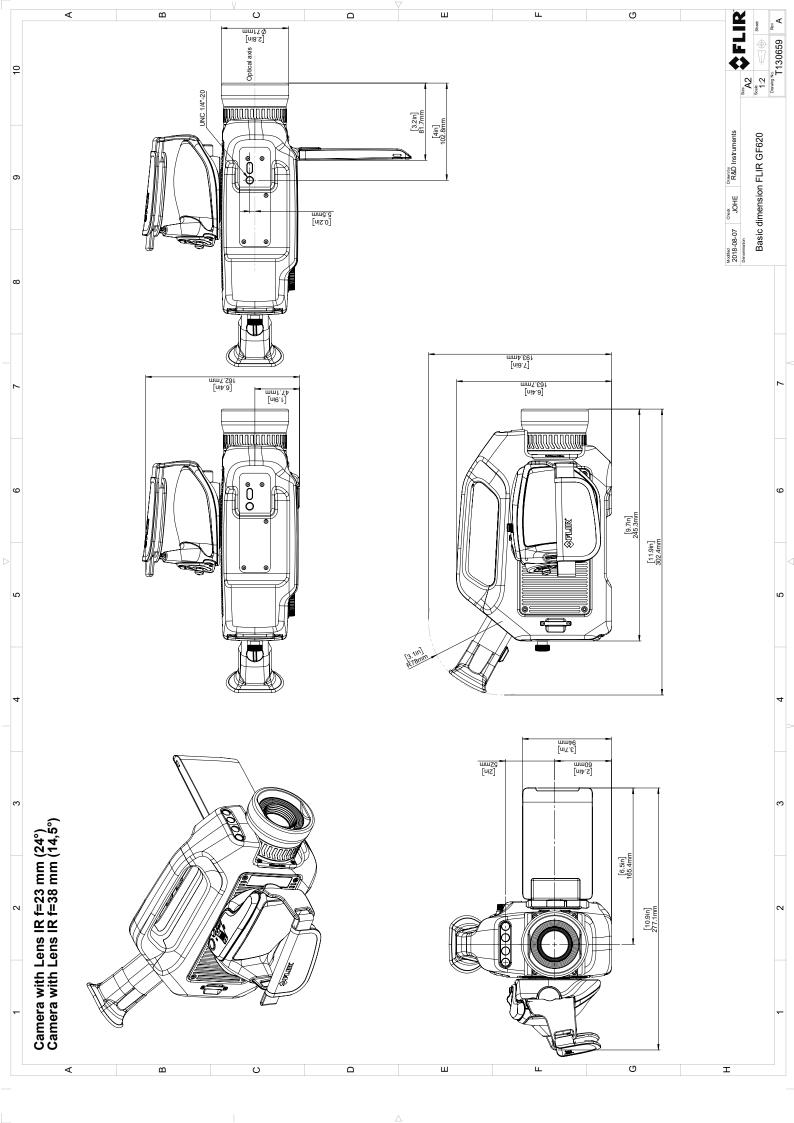
Supplies & accessories:

- T911881ACC; Camera bag and harness, GF series
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T199183ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T911975ACC; Memory card SD 16 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T199466ACC; Hard transport case for FLIR GFx3xx and GF6xx series
- QL320-FIELD-KIT; FLIR QL320 Accessory Field Kit
- 4224488; FLIR QL320 Quantitative OGI Tablet
- 4224489; FLIR QL320 Quantitative OGI Tablet (Regulatory pricing)
- T129728ACC; Hand strap
- T129739ACC; Lens cap
- T129867ACC; Lens cap strap
- T129729ACC; Neck strap
- 4214231; FLIR QL320, Pouch
- 4225679; FLIR QL320, Extended high capacity battery (7.8 Ah)



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- 4214168; FLIR QL320, Standard Battery (3.95 Ah)
- 4226768; FLIR QL320, X Strap
- T911309ACC; Screwdriver TX20
- T130007; Extended Calibration Certificate
- INST-EW-0230; Extended Warranty 1 Year for GF3xx, GFX320, G300pt, GF620, SC670X
- INST-EWGM-0210; Premium Service Package for A6604, GF3xx-series, GFX320, G300pt, GF620, GasFindIR HSX, GasFindIR LW, SC4000
- INST-GM-0180; General Maintenance Package for G300pt, GFX320, GF620





July 25, 2019 Täby, Sweden

AQ320361

CE Declaration of Conformity – EU Declaration of Conformity

Product: FLIR GF6XX-series

Name and address of the manufacturer: FLIR Systems AB PO Box 7376 SE-187 15 Täby, Sweden

This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration: FLIR GF6XX -series. The object of the declaration described above is in conformity with the relevant Union harmonisation

Directives:

legislation:

Directive: Directive:	2014/30/EU 2011/65/EU incl Am EU 2015/863	Electromagnetic Compability RoHS
Standards:		
Emission:	EN 61000-6-4:2018	Electromagnetic compability Emission
Immunity:	EN 61000-6-2:2016	Electromagnetic compability
Restricted substances ((RoHS): EN 50581:2012	Immunity Technical documentation

FLIR Systems AB Quality Assurance

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Lea Dabiri Quality Manager