

P/N: 59801-0101

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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 GF346 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks of carbon monoxide (CO) and other harmful gases, 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.

CO is an industrial gas with applications in the steel industry and bulk chemicals manufacturing. It is also used for packaging systems for fresh meat and fish.

Benefits:

- Improved efficiency: The FLIR GF346 reduces revenue loss by pinpointing even small 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 wireless
 connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer
 of images or remote control of the camera. The FLIR GF346 can also be used for temperature
 measurement, which makes it even more useful for predictive maintenance.
- Increased worker safety: CO can be toxic to humans when encountered in higher concentrations.
 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 highly toxic gases or explosive chemicals. With a
 FLIR GF346 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 gases, such as CO, have a high global warming potential, and
 are usually governed by regulations. Even small leaks can be detected and documented using the
 FLIR GF346 camera.

Detects the following gases: carbon monoxide, nitrous oxide, ketene, ethenone, butyl isocyanide, hexyl isocyanide, cyanogen bromide, acetonitrile, acetyl cyanide, chlorine isocyanate, bromine isocyanate, methyl thiocyanate, ethyl thiocyanate, chlorodimethylsilane, dichloromethylsilane, silane, germane, arsine.

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
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)

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	Built-in cold band pass filter 4.52–4.67 μm



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Detector data	
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Carbon Monoxide, Nitrous Oxide, Ketene, Ethenone, Butyl Isocyanide, Hexyl Isocyanide, Cyanogen Bromide, Acetonitrile, Acetyl Cyanide, Chlorine Isocyanate, Bromine Isocyanate, Methyl Thiocyanate, Ethyl Thiocyanate, Chlorodimethylsilane, Dichloromethylsilane, Silane, Germane, Arsine
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 +300°C (-4°F to +572°F)
Accuracy	$\pm 1^{\circ}$ C ($\pm 1.8^{\circ}$ F) or $\pm 1\%$ of reading for temperature range 0°C to +300°C (+32°F to +572°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 , two card slots
Image storage capacity	> 1200 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
Periodic image storage	Every 10 seconds up to 24 hours
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 (7.5 and 15 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
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: FLIR IR Camera Player FLIR ResearchIR FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	•
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
	•



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USB A: Connect external USB device USB Mini-B: Data transfer to and from PC	USB	
USB-A: Connect external USB device USB Mini-B: Data transfer to and from PC		1
Composite video Composite 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 (+77°F) and typical use 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 External power operation AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional) DC operation 10.8 to 16 V DC, polarity protected (proprietary protected) Power 8.5 W typically 7 min. @ 25°C (+77°F) Environmental data Typically 7 min. @ 25°C (+77°F) 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) Directives - 73/23EEC (-2004/108/EC (-2004/EC (Immunity) (-2004/EC (Immunity) (-2004/EC (-2004/EC (Immunity) (-2004/EC (-2004/EC (Immunity) (-2004/EC (-2004/EC (-2004/	035	
Digital video output (image)	USB, standard	USB Mini-B: 2.0 high speed
Power system	Composite video	
Battery type	Video out	Digital video output (image)
Battery voltage	Power system	
### Battery capacity ### 4.4 Ah ### Battery operating time	Battery type	Rechargeable Li ion battery
Satery operating time > 3 hours at 25°C (+77°F) and typical use	Battery voltage	7.2 V
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 External power operation AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional) DC operation 10.8 to 16 V DC, polarity protected (proprietary protected) Power 8.5 W typically Start-up time Typically 7 min. @ 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) Directives - 73/23EEC - 2004/108/EC - 2002/95/EC - 2002/95/EC - 2002/96/EC EMC - EN61000-6-4 (Emission) - EN61000-6-2 (Immunity) - FC 47 CFR Part 15 class A (Emission) - EN61000-6-2 (Immunity) - FC 47 CFR Part 15 class A (Emission) - EN61000-6-2 (Immunity) - FC 47 (EFR Part 15 class A (Emission) - EN61000-6-2 (Immunity) - FC 47 (EFR Part 15 class A (Emission) - EN61000-6-2 (Immunity) - FC 4	Battery capacity	4.4 Ah
2-bay charger 2.5 h to \$5% capacity, charging status indicated by LED's	Battery operating time	> 3 hours at 25°C (+77°F) and typical use
By LED's	Charging system	
wehicle (cable with standard plug, optional) DC operation 10.8 to 16 V DC, polarity protected (proprietary protected) Power 8.5 W typically Start-up time Typically 7 min. @ 25°C (+47°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) Directives * 73/23EEC ** 2004/108/EC ** 2002/95/EC EMC * EN61000-6-4 (Emission) ** EN61000-4-2 (Immunity) ** FCC 47 CFR Part 15 class A (Emission) ** EN61000-4-8, L5 Encapsulation IP 54 (IEC 60529) Shock 25 g (IEC 60068-2-27) Vibration 2 g (IEC 60068-2-27) Safety Power supply: EN/UL/IEC 60950-1 Physical data Camera weight, excl. lens and battery 1.94 kg (4.27 lb.) Camera weight, incl. lens and battery 2.24 kg (4.94 lb.) Camera weight, incl. lens and battery 2.48 kg (5.47 lb.) Battery weight 0.24 kg (0.52 lb.) Carmera size, excl. lens (L × W × H) 305 × 169 × 161 mm (12.0 × 6.7 × 6	Charging time	
Protected Prower S.5 W typically	External power operation	
Typically 7 min. @ 25°C (+77°F)	DC operation	
Directives	Power	8.5 W typically
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) Directives • 73/23EEC • 2004/108/EC • 2002/95/EC • 2002/95/EC • 2002/96/EC 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) Shock 25 g (IEC 60068-2-27) Vibration 2 g (IEC 60068-2-6) Safety Power supply: EN/UL/IEC 60950-1 Physical data Camera weight, excl. lens and battery 1.94 kg (4.27 lb.) Camera weight, incl. lens and excl. battery 2.24 kg (4.94 lb.) Camera weight, incl. lens and battery 2.48 kg (5.47 lb.) Battery weight 0.24 kg (0.52 lb.) Camera size, excl. lens (L × W × H) 284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.) Cameras size, incl. lens (L × W × H) 305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)	Start-up time	Typically 7 min. @ 25°C (+77°F)
Storage temperature range	Environmental data	
Humidity (operating and storage)	Operating temperature range	-20°C to +50°C (-4°F to +122°F)
+40°C (+77°F to +104°F) (2 cycles)	Storage temperature range	-30°C to +60°C (-22°F to +140°F)
## 1.5/2/38-EC ## 2004/108/EC ## 2002/95/EC ## 2002/95/EC ## 2002/96/EC ## EN61000-6-4 (Emission) ## EN61000-6-2 (Immunity) ## EN61000-6-2 (Immunity) ## EN61000-4-8, L5 ## Encapsulation ## IP 54 (IEC 60529) ## Shock ## 25 g (IEC 60068-2-27) ## Vibration ## 2 g (IEC 60068-2-6) ## Safety ## Power supply: EN/UL/IEC 60950-1 ## Physical data ## Camera weight, excl. lens and battery ## Date of the supplemental content of the supplemental conten	Humidity (operating and storage)	
• 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) Vibration 2 g (IEC 60068-2-6) Safety Power supply: EN/UL/IEC 60950-1 Physical data Camera weight, excl. lens and battery 1.94 kg (4.27 lb.) Camera weight, incl. lens and excl. battery 2.24 kg (4.94 lb.) Camera weight, incl. lens and battery 2.48 kg (5.47 lb.) Battery weight 0.24 kg (0.52 lb.) Camera size, excl. lens (L × W × H) 284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.) Cameras size, incl. lens (L × W × H) 305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)	Directives	2004/108/EC2002/95/EC
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Vibration 2 g (IEC 60068-2-6) Safety Power supply: EN/UL/IEC 60950-1 Physical data Camera weight, excl. lens and battery 1.94 kg (4.27 lb.) Camera weight, incl. lens and excl. battery 2.24 kg (4.94 lb.) Camera weight, incl. lens and battery 2.48 kg (5.47 lb.) Battery weight 0.24 kg (0.52 lb.) Camera size, excl. lens (L x W x H) 284 x 169 x 161 mm (11.2 x 6.7 x 6.3 in.) Cameras size, incl. lens (L x W x H) 305 x 169 x 161 mm (12.0 x 6.7 x 6.3 in.)	Encapsulation	IP 54 (IEC 60529)
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Battery weight $0.24 \text{ kg } (0.52 \text{ lb.})$ Camera size, excl. lens (L × W × H) $284 \times 169 \times 161 \text{ mm } (11.2 \times 6.7 \times 6.3 \text{ in.})$ Cameras size, incl. lens (L × W × H) $305 \times 169 \times 161 \text{ mm } (12.0 \times 6.7 \times 6.3 \text{ in.})$	Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
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Cameras size, incl. lens (L \times W \times H) 305 \times 169 \times 161 mm (12.0 \times 6.7 \times 6.3 in.)	Battery weight	0.24 kg (0.52 lb.)
	Camera size, excl. lens $(L \times W \times H)$	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Battery size (L \times W \times H) 141 \times 47 \times 28 mm (5.5 \times 1.8 \times 1.1 in.)	Cameras size, incl. lens $(L \times W \times H)$	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
	Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)

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FLIR GF346 14.5°

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Physical data	
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
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	Infrared camera with lens Battery charger Battery, 2 ea. Hard transport case HDMI-DVI cable HDMI-HDMI cable Lens cap (2 ea.) Lens cap (mounted on lens) Memory card Power supply, incl. multi-plugs Printed documentation Shoulder strap USB cable Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

Supplies & accessories:

- T911881ACC; Camera bag and harness, GF series
- T197388; IR lens, f=92 mm (6°) with case (for GF300, GF309, GF320, GF346)
- T198267; IR lens, f=23 mm (24°) with case (for GF335, GF346)
- T198298; IR lens, f=38 mm (14.5°) with case (for GF335, GF346)
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910423ACC; USB cable Std A <-> Mini-B
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T130007; Extended Calibration Certificate
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3
- APP-10002; FLIR Tools Mobile (Android Application)
- T198586; FLIR Reporter Professional (license only)
- T300243; FLIR Thermal Studio Pro, 1 Year Subscription
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, Perpetual license
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)

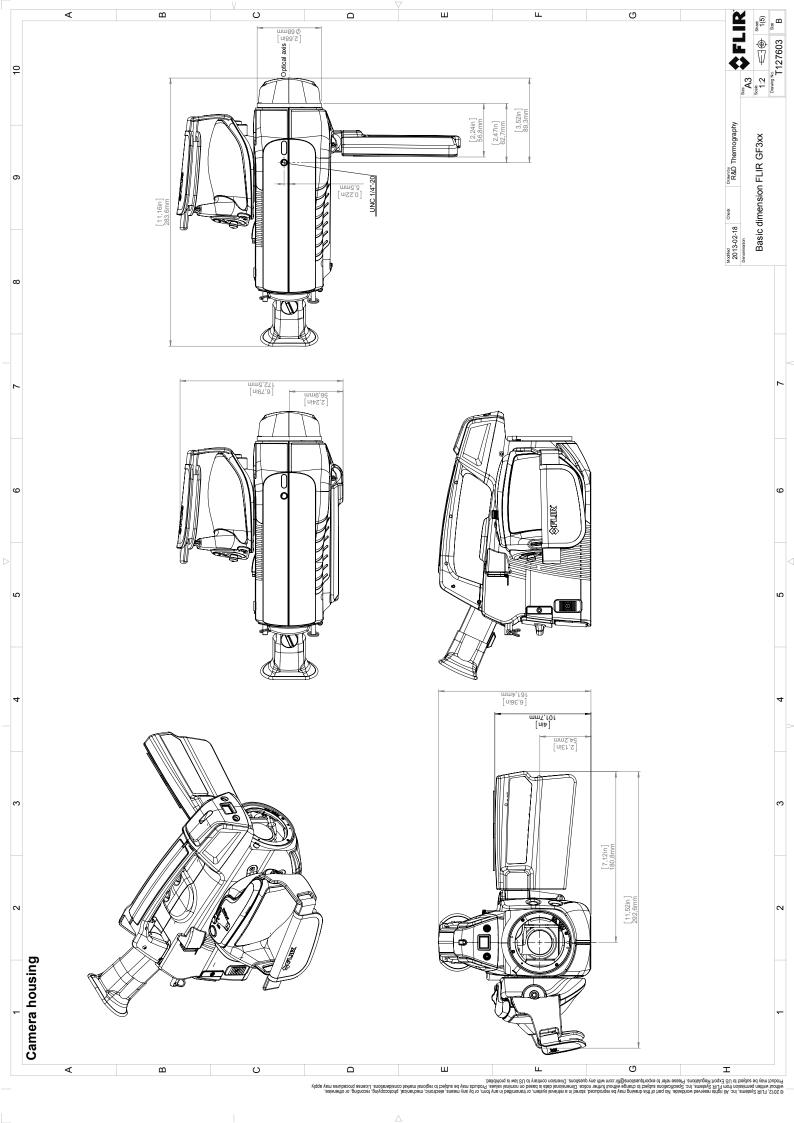
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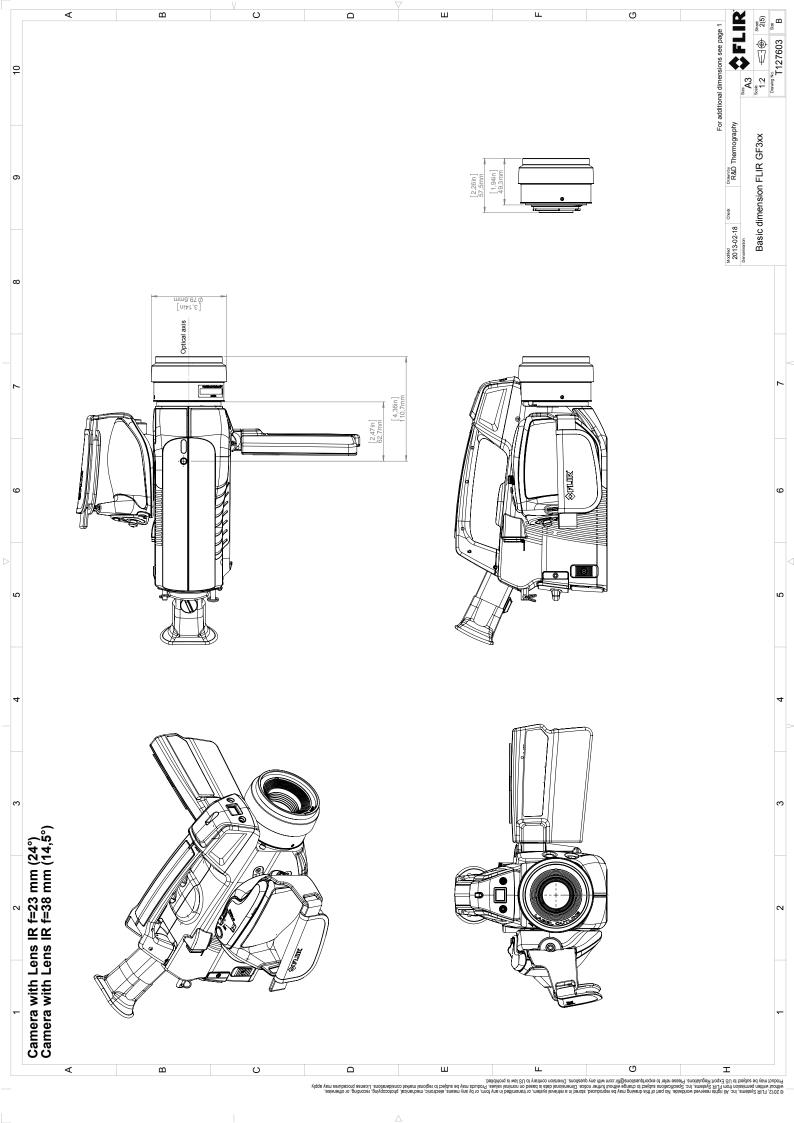
FLIR GF346 14.5°

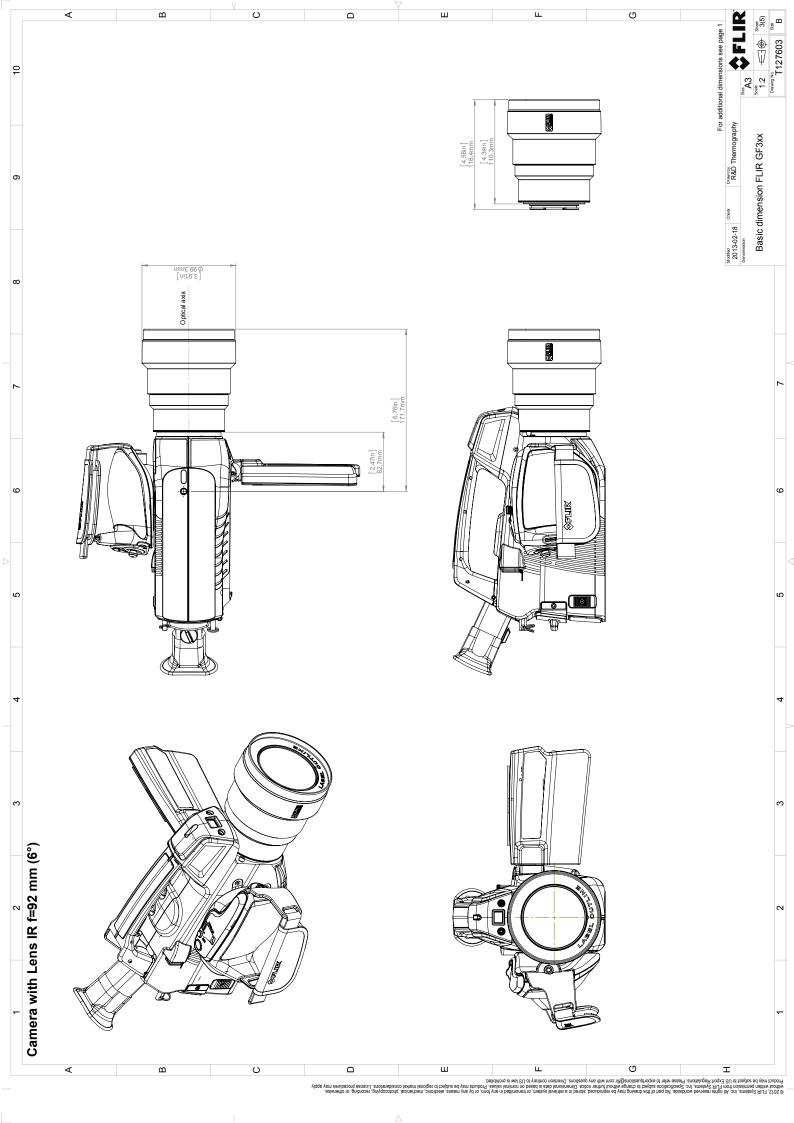
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- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- 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-0175; General Maintenance Package for G300a, GF3xx









October 17, 2012 AQ125905

CE Declaration of Conformity

This is to certify that the System listed below has been designed and manufactured to meet the requirements, as applicable, of the following EU-Directives and corresponding harmonising standards. The systems consequently meet the requirements for the CEmark.

Directives:

Directive 2004/108/EC;

Electromagnetic Compatibility

Directive 2006/95/EC;

"Low voltage Directive" (Power Supply)

Directive 2002/96/EC

Waste electrical and electronic equipment; WEEE

(As applicable)

Standards:

Emission:

EN 61000-6-3; Electro magnetic Compatibility

Generic standards - Emission

Immunity:

EN 61000-6-2; Electro magnetic Compatibility;

Generic standards - Immunity

Safety (Power Supply):

EN 60950

(or other)

Safety of information technology

equipment

System(s):

FLIR GF3xx

FLIR Systems AB Quality Assurance

Olof Gawell Director

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