

1000 София, ул. "Стефан Караджа" №7, вх. Б, ет. 1, ап. 14, тел.: 02/9874960, 9874970, факс: 02/9874980, E-mail: office@acm-bg.com
 6000 Стара Загора, ул. "Цар Иван Шишман" 77, офис 42, тел.: 042/601555, 602555, факс: 042/604555, E-mail: office-stz@acm-bg.com
 9009 Варна, ул. „Уста Колю Фичето“ №25Б, ет.4, тел.:052/511559, факс:052/505051, E-mail: office-vn@acm-bg.com

Приложение - Образец
за индикативно
предложение

Индикативно предложение по пазарна консултация № 42282
с предмет: "Доставка на оптичен елегаз (SF₆) детектор"

ОТ

фирма: "АСМ Диагностика" ООД
ЕИК: 204354297

адрес: гр.София, ул."Стефан Караджа"№ 7, вх.Б, ет.1, ап.11

тел.: 02/987 49 60, 02/987 49 70

e-mail: office@acm-bg.com

лице за контакт: Ангел Ангелов, Управител

№ по ред	Описание и технически характеристики на предлаганото изделие	М.е.	К-во	Ед.цена без ДДС	Стойност без ДДС
1	Оптичен елегаз (SF ₆) детектор	бр.	1	264 060.00лв.	264 060.00лв
Обща стойност без ДДС					

Срок на доставка: 6 - 8 седмици от датата на заявка

Условие на доставка: DDP Ваш склад

Гаранционен срок: 12 месеца

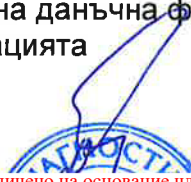
Производител: FLIR Systems

Съпроводителна документация при доставка: Приемо-предавателен протокол, калибрационен сертификат, гаранционна карта и оригинал на данъчна фактура

Документ за представителството: Приложено към документацията

05.11.2019г.
София


Подпис: Ангел


Заличено на основание чл. 2 от ЗЗЛД

Подпис: Анатол

Ф-6212 / 05.11.2019 г.

Характеристики на термовизионна камера за откриване на изтичания на
изолационен SF₆ газ (елегаз)

Модел	GF306
	
Характеристики за заснемане на изображения	
Тип на детектора	Охлаждаем QWIP
Спектрална чувствителност	10.3 – 10.7 μm
Резолюция	320 × 240
Общ брой пиксели	76,800
Спектрален обхват	От 10.0 до 11.0 μm
Честота на опресняване	60Hz
Термочувствителност	<15 mK при +30°C (+86°F)
Точност	±1°C (±1.8°F) за температурен обхват 0°C до +100°C (+32°F до +212°F) или ±2% показанието за температурен >+100°C (>+212°F)
Температурен диапазон	-40°C до 500°C (-40°F до 932°F)
Високотемпературна опция	Не е налична
Опции обективи	Стандартен 14.5° × 10.8°; Опционален: 24°
Увеличение	1-8x непрекъснато, цифрово увеличение
Фокус	Автоматичен или ръчен
Цветен LCD	4.3"; 800 × 480 пиксела
Регулируем визьор	Регулируем OLED, 800 × 480 пиксела
Цифрова камера със светкавица (2 бр.)	3.2 мегапиксела
Лазарна показалка	Да
Видео изход	HDMI
Анализ	
Спотметри	10
Зони	5 (мин./макс./ср. ст-т)
Профили	1 линия (хоризонтална или вертикална)
Delta T / температурна разлика/	Да

Заличено на основание чл. 2 от ЗЗЛД

ВЯРНО С ОВМ

Бележки	
GPS	Да, вграден
WiFi	Да, вграден
Съхранение	
Режими на работа	Инфрочервен, цифров, високочувствителен
Радиометричен JPG	Да, едновременно съхранение на термовизионни и цифрово изображение
Капацитет	Мин. 1200 изображения на SD карта памет, 2 слота за SD карти памет
Периодично заснемане	от 10 сек. до 24 часа
Радиометричен видео запис (15Hz)	Да, с включени 14-битови радиометрични данни, до 25 мин./клип
Нерадиометричен MPEG видео запис	Да, до 60 мин./клип
Обща информация	
Устойчивост на удар	25 g (IEC 60068-2-27)
Устойчивост на вибрация	2 g (IEC 60068-2-6)
Степен на защита	IP 54 (IEC 60529)
Тегло (с батерия и обектив)	2.48 кг
Окомплектовка	
Батерии	2 броя литиево-йонни акумулаторни батерии
Време на работа на батерия	>120 мин. непрекъсната работа
Зареждане на батериите	На отделна зарядна станция за две батерии, <2 часа за пълно зареждане
Софтуер	Софтуер за прехвърляне и обработка на изображения: изготвяне на доклад с шаблони, възможност за корекция на коефициент на излъчване, атмосферна и отразена температура, разстояние до обекта, относителна влажност, ръчна и автоматична корекция на ниво (level) и обхват (span), смяна на световите палитри, добавяне и редактиране на коментари към изображенията



Заличено на основание чл. 2 от ЗЗЛД

ВЯРНО



FLIR GF-Series

FLIR GF306

For Gas Leak Detection of the "Greenhouse Gas" SF₆ and Electrical Inspections

FLIR GF306 is an infrared camera capable of finding Sulfur Hexafluoride (SF₆), the "greenhouse gas" with an estimated atmospheric lifetime of 3,200 years.

- Real time visualization of gas leaks
- Finds SF₆ leaks quickly & safely
- Considerably reduced inspection time
- Trace leaks to their source
- Perform safer inspections
- Internal data/video storage
- Digital camera & GPS
- High performance LCD & Tilttable high resolution viewfinder
- Multi-angle handle with integrated direct access buttons



Visualizes gas leaks in real time

FLIR GF306 scans large areas rapidly and pinpoints leaks in real time. It is ideal for monitoring plants that is difficult to reach with contact measurement tools. Literally thousands of components can be scanned per shift without the need to interrupt the process. It reduces repair downtime and provides verification of the process. And above all it is exceptionally safe, allowing potentially dangerous leaks to be monitored from several meters away.

FLIR GF306 will significantly improve your work safety, environmental and regulatory compliance, not to mention helping to improve the bottom line by finding leaks that essentially decrease profits.

Detects the following gases:

- | | | |
|--|-----------------------|---------------------|
| • Sulfur Hexafluoride (SF ₆) | • Chloride Dioxide | • Propenal |
| • Acetyl Chloride | • Ethyl Cyanoacrylate | • Propene |
| • Acetic Acid | • Ethylene | • Tetrahydrofuran |
| • Allyl Bromide | • Furan | • Trichloroethylene |
| • Allyl Chloride | • Hydrazine | • Uranyl Fluoride |
| • Allyl Fluoride | • Methylsilane | • Vinyl Chloride |
| • Ammonia (NH ₃) | • Methyl Ethyl Ketone | • Vinyl Cyanide |
| • Bromomethane | • Methyl Vinyl Ketone | • Vinyl Ether |



Captured SF₆ leak

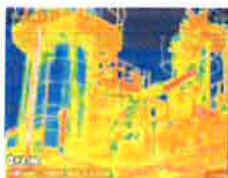


Tilttable, flip-out 4.3" High Contrast Color LCD allows you to view targets more safely from any angle.

Applications:



Electrical Utility



Petrochemical & Chemical industries

Заличено на основание чл. 2 от ЗЗЛД

ВАРХО



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

FLIR GF306 Technical Specifications

Imaging and optical data	
Field of view (FOV) / Minimum focus distance	24° × 18° / 0.3 m
Lens identification	Automatic
F-number	1.5
Thermal sensitivity/NETD	<25 mK @ +30°C
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1-8x continuous, digital zoom
Digital image enhancement	Noise reduction filter, High Sensitivity Mode (HSM)
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
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	-40 to +500°C
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Set-up commands	1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images
Web interface	
Storage of images	
Image storage type	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
GPS	Location data automatically added to every image from built-in GPS
Video recording and streaming	
Non radiometric IR-video recording	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.
Non radiometric IR-video streaming	RTP/H.264
Digital camera	
Built-in digital camera	3.2 Mpixel, auto focus, and two video lamps
Digital camera video recording	MPEG4/H.264 (25 minutes/clip) to memory card
Laser pointer	
Laser	Activated by dedicated button
Data communication interfaces	
USB, standard	USB Mini-B: 2.0 High Speed
Video	Digital Video Output (image)
Power system	
Battery type	Rechargeable Li Ion battery
Battery voltage	7.2 V
Battery operating time	> 2 hours at 25°C 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
DC operation	10.8 to 16V DC, polarity protected (proprietary protected)
Power	12.5 W typically
Start-up time	< 7 min. @ 25°C

Environmental data	
Operating temperature range	-20°C to +40°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)
Directives	73/23EEC 89/336/EEC 2002/95/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 IP 54 (IEC 60529)
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 battery	2.48 kg
Battery weight	0.24 kg
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm
Tripod mounting	Standard, ¼"-20
Housing material	Aluminium, Magnesium
Grip material	TPE Thermoplastic Elastomers
Scope of delivery	
Infrared camera	
Standard Lens, 14,5° (Ge)	
Shipping case	
Lens cap (mounted on lens)	
Lens cap strap, 2 ea.	
Shoulder strap	
Batteries 2 ea. (1 of the batteries inside camera)	
Charger	
Power supply	
Power supply cord	
HDMI cable	
HDMI-DVI 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	



Заличено на основание чл. 2 от ЗЗЛД

ВЯРНО

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FLIR Systems, Sweden
World Wide Thermography
Center
Rinkebyvägen 19 - PO Box 3
SE-182 11 Danderyd
Tel: +46 (0)8 753 25 00
e-mail: sales@flir.se

FLIR Systems, France
Tel: +33 (0)1 41 33 97 97
e-mail: info@flir.fr

FLIR Systems, Germany
Tel: +49 (0)69 95 00 900
e-mail: info@flir.de

FLIR Systems, UK
Tel: +44 (0)1732 220 011
e-mail: sales@flir.uk.com

FLIR Systems, Italy
Tel: +39 02 99 45 10 01
e-mail: info@flir.it

FLIR Systems, Belgium
Tel: +32 (0)3 287 87 10
e-mail: info@flir.be



www.flir.com/thg



FLIR GF306

SF₆ Optical Gas Imaging Camera

The FLIR GF306 is an optical gas imaging camera that visualizes and pinpoints SF₆ and other gas emissions without the need to shut down operations. This portable, non-contact system allows you to quickly scan wide areas for leaks, so you can begin repairs sooner.

Sulfur Hexafluoride (SF₆) is used in the electric power industry as an insulator and quenching medium for gas-insulated substations and circuit breakers. These facilities have thousands of connections and fittings that need regular inspection, but more than 80% of a gas leaks occur in less than 1% of those components. As a result, crews spend more than 99% of their time inspecting safe, non-leaking parts.

The FLIR GF306 reduces revenue loss by detecting gas leaks efficiently, at a safe distance away from high-voltage areas.

Visualize SF₆ and Many Other Gases

Invisible gases look like smoke through the lens of the GF306, making even the smallest emissions easy to see. Unlike a traditional "sniffer", the camera allows you to survey large areas quickly and effectively and see into spaces that are difficult to reach with non-contact measurement tools. The GF306 is capable of detecting not only SF₆, but several other gases including Anhydrous Ammonia (NH₃), and Ethylene (C₂H₄).

Optical Gas Imaging and Thermography in One

The GF306 accurately measures temperatures up to 500°C as well as detects gas. Integrate this camera into your facility's predictive maintenance program for benefits beyond leak detection.

Meet EPA Regulations

One pound of SF₆ has the same global warming impact of 24,000 pounds of CO₂. It has an atmospheric lifespan of 3,200 years, so even small amounts of SF₆ can have a significant impact on global climate change.

The US Environmental Protection Agency includes optical gas imaging as an accepted leak detection technique in its Greenhouse Gas Reporting Rule.



Visible vs. OGI image of SF₆ leak



SF₆ leaking from the bushing of a gas circuit breaker



Ammonia (NH₃) gas escaping from pipes

Заличено на основание чл. 2 от ЗЗЛД

ОРИГИНАЛ

Specifications

Model		GF306
Detector Type	Focal plane array, cooled QWIP	
Spectral Range	10.3 – 10.7 μm	
Resolution	320 x 240 pixels	
Detector Pitch	30 μm	
NETD/Thermal Sensitivity	< 15 mK @ +30°C (+86°F)	
Sensor Cooling	Stirling Microcooler (FLIR MC-3)	
Electronics / Imaging		
Image Modes	IR image, visual image, High Sensitivity Mode (HSM)	
Frame Rate (Full Window)	60 Hz	
Dynamic Range	14-bit	
Video Recording / Streaming	Real-time non-radiometric recording: MPEG4/H.264 (up to 60 min./clip) to memory card Real-time non-radiometric streaming: RTP/MPEG4	
Visual Video	MPEG4 (25 min./clip) to memory card	
Visual Image	3.2 MP from integrated visible camera	
GPS	Location data stored with every image	
Camera Control	Remote camera control via USB	
Measurement		
Temperature range	-40°C to +500°C (-40°F to +932°F)	
Accuracy	±1°C (±1.8°F) for temperature range (0°C to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)	
File Storage		
Storage Media	Removable SD or SDHC memory card; two card slots	
Image Storage Capacity	> 1200 images (JPEG) with post-process capability per GB on memory card	
Optics		
Camera f/number	f/1.5	
Available Fixed Lenses	14.5° (38 mm), 24° (23 mm)	
Focus	Automatic (one touch) or manual (electric or on the lens)	
Image Presentation		
On-Camera Display	Built-in widescreen, 4.3 in. LCD, 800 x 480 pixels	
Automatic Gain Control	Continuous/manual, linear, histogram	
Menu Commands	Level/span, auto adjust continuous/manual/semi-automatic, zoom, palette, start/stop recording, store image, playback/recall image	
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC	
Zoom	1-8x continuous, digital zoom	
General		
Operating Temperature Range	-20°C to +40°C (-4°F to +104°F)	
Storage Temperature Range	-30°C to +60°C (-22°F to +140°F)	
Encapsulation	IP 54 (IEC 60529)	
Bump / Vibration	25 g (IEC 60068-2-27) / 2 g (IEC 60068-2-6)	
Power	AC adapter 90-260 VAC, 50/60 Hz or 12 V from a vehicle	
Battery System	Rechargeable Li-ion battery	
Weight w/ Battery & Lens	2.48 kg (5.47 lb.)	
Size (L x W x H) w/ Lens	305 x 169 x 161 mm (12.0 x 6.7 x 6.3 in.)	
Mounting	UNC 1/4"-20	



The gases FLIR's GF306 can detect include:

- Sulphur Hexafluoride
- Anhydrous Ammonia
- Ethylene
- Ethyl Cyanoacrylate ("Superglue")
- Chlorine Dioxide
- Acetic Acid
- FREON-12
- Methyl Ethyl Ketone (MEK)

NASHUA
FLIR Systems, Inc.
9 Townsend West
Nashua, NH 03063
USA
PH: +1 866.477.3687

PORTLAND
Corporate Headquarters
FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
PH: +1 866.477.3687

EUROPE
FLIR Systems
Luxemburgstraat 2
2321 Meer
Belgium
PH: +32 (0) 3665 5100

CANADA
FLIR Systems, Ltd.
920 Sheldon Court
Burlington, ON L7L 5L6
Canada
PH: +1 800.613.0507

www.flir.com/ogi
NASDAQ: FLIR

SWEDEN
FLIR Systems AB
Antennvägen 6,
PO Box 7376
SE-187 66 Täby
Sweden
PH: +46 (0)8 753 25 00

HONG KONG
FLIR Systems Co., Ltd
Rm 1813-16, Tower II
Grand Central Plaza
138 Shatin Rural
Committee Road Shatin,
New Territories
Hong Kong
TEL: +852 2792 8955

UK
FLIR Systems UK
2 Kings Hill Avenue
Kings Hill
West Malling - Kent
ME19 4AQ
United Kingdom
PH: +44 (0)1732 220 011

LATIN AMERICA
FLIR Systems Brasil
Av. Antonio Bardella, 320
Sorocaba, SP 18052-852
Brasil
TEL: +55 15 3238 7080



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ИНАЛА

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AUTHORIZATION LETTER

Date: November 5, 2019

This is to confirm that the following company:

ACM Diagnostics Ltd

Located at:

7 Stefan Karadzha str. App.11,

Sofia 1000 Bulgaria

Is an authorized non-exclusive distributor for the sales and marketing of;

Optical Gas Imaging
Sales and service in Bulgaria

This authorization is valid until 31/12/2019 unless revoked in writing before that date.

This document is just describing the status and is not serving as a legal document. Instead the actual terms are defined and agreed in a FLIR non-exclusive distribution contract which is valid for a timeframe of one year and then annually reviewed and where applicable renewed.

Sincerely,

Signature: *Rickard Lindvall*

Email: rickard.lindvall@flir.se

Rickard Lindvall
General Manager Instruments

(Handwritten signature)
Заличено на основание чл. 2 от ЗЗЛД

ВРНО