



# FLIR GF320

Infrared camera for gas leak detection and electrical inspections

The new FLIR GF320 is a revolutionary infrared camera capable of finding Methane emissions or other Volatile Organic Compounds (VOC). It is unbeatable for detecting even the smallest gas leaks.

- Real-time visualization of even very small gas leaks thanks to the Excellent High Sensitivity Mode (<25mK)
- Measures temperatures from -40 °C to +350 °C with ±1 °C accuracy
- Built-in Video Recording, Digital Camera, Laser pointer
- Embedded GPS Data helps to identify the precise locations of noncompliance
- High performance LCD & Tiltable high resolution viewfinder delivers bright and vivid image in poor lighting environment or under sunlight
- Lightweight (2,4 kg) and robust design
- User-Inspired Ergonomics: Rotating Handle, Direct Access Buttons
- Dual use, detects gas leaks and carries out electrical inspections (radiometric image data)



SFLIR CEBED

The sniffer is detecting gas but is unable to trace its source, whereas this thermal image shows the leak source clearly on

### Visualizes gas leaks in real time

FLIR GF320 can scan large areas rapidly and pinpoint 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.

### Protect the environment

FLIR GF320 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:

- Benzene
- Ethanol
- Ethylbenzene
- Heptane
- Hexane
- Isoprene Methanol

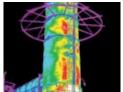
- MEK
- MIBK
- Octane
- Pentane
- 1-Pentene
- Toluene Xylene

- Butane
- Ethane
- Methane
- Propane
- Ethylene
- Propylene



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

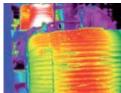
#### **Applications:**



Oil refineries



Natural gas



Power generation



Petrochemical & chemical industries



Automatic (one Touch) and Manual Focus w/8 to 1 Continuous Digital Zoom helps you to deliver the perfect picture at ease.

# FLIR GF320 Technical Specifications

| Imaging and optical data  |   |
|---|---|
| Field of view (FOV) / Minimum focus distance  | 24° x 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  | 1–8× continuous, digital zoom   |
| Digital image enhancement   | -   |
| 9   | Noise reduction filter, scene based NUC, High Sensitivity Mode (HSM)  |
| Focal Plane Array (FPA) / Spectral range  | Cooled InSb / 3–5 µm  |
| IR resolution   | 320 × 240 pixels  |
| Detector pitch  | 30 µm   |
| Sensor cooling  | Stirling Microcooler (FLIR MC-3)  |
| Electronics and data rate   | 00.11-  |
| Full frame rate   | 60 Hz   |
| Image presentation  | D 'l' '   |
| 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 +350°C   |
| Accuracy  | ±1°C for temperature range (0-100 °C) or  |
|   | ±2% of reading for temperature range (> +100 °C)  |
| 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   |
| Set-up  |   |
| Menu commands   | Level, span   |
| mona communa  | Lovoi, opun   |
| Mond communus   | Auto adjust continuous/manual/semi-automatic  |
| mona communas   |   |
| more communes   | Auto adjust continuous/manual/semi-automatic  |
| mond communus   | Auto adjust continuous/manual/semi-automatic<br>Zoom  |
| mond communus   | Auto adjust continuous/manual/semi-automatic<br>Zoom<br>Palette   |
| mond comments   | Auto adjust continuous/manual/semi-automatic<br>Zoom<br>Palette<br>Start/stop recording<br>Store image  |
| Set-up commands   | Auto adjust continuous/manual/semi-automatic<br>Zoom<br>Palette<br>Start/stop recording<br>Store image<br>Playback/recall image   |
|   | Auto adjust continuous/manual/semi-automatic<br>Zoom<br>Palette<br>Start/stop recording<br>Store image  |
|   | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats  |
| Set-up commands  Web interface  | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language,  |
| Set-up commands  Web interface  Storage of images   | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, 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 type   | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots   |
| Set-up commands  Web interface  Storage of images  Image storage type  Image storage capacity   | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images   |
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| Set-up commands  Web interface Storage of images Image storage type Image storage capacity Image storage mode File formats GPS  | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images.  Visual image is automatically associated with corresponding IR image.  |
| Set-up commands  Web interface  Storage of images  Image storage type  Image storage capacity  Image storage mode  File formats  GPS  Video recording and streaming   | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  |
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| 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  | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video.  |
| 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  Digital camera video recording   | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card   |
| Set-up commands  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 Digital camera video recording Non radiometric IR-video streaming   | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video.  |
| 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  Digital camera video recording  Digital camera   | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264   |
| Set-up commands  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  Digital camera video streaming  Digital camera  Built-in digital camera  | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card   |
| Set-up commands  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  Digital camera video recording  Non radiometric IR-video streaming Digital camera  Built-in digital camera  Laser pointer   | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264  3.2 Mpixel, auto focus, and two video lamps  |
| Set-up commands  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  Digital camera video recording  Non radiometric IR-video streaming  Digital camera  Built-in digital camera  Laser pointer  Laser  | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264   |
| Set-up commands  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 Digital camera video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser pointer Laser Data communication interfaces   | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Standard JPEG, 14 bit measurement data included Location data automatically added to every image from built-in GPS  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264  3.2 Mpixel, auto focus, and two video lamps  Activated by dedicated button   |
| Set-up commands  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  Digital camera video recording  Non radiometric IR-video streaming  Digital camera  Built-in digital camera  Laser pointer  Laser  | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264  3.2 Mpixel, auto focus, and two video lamps  Activated by dedicated button  USB-A: Connect external USB device (e.g. memory stick)   |
| Set-up commands  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  USB   | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264  3.2 Mpixel, auto focus, and two video lamps  Activated by dedicated button  USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: Data transfer to and from PC  |
| Set-up commands  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  Data communication interfaces  USB  | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264  3.2 Mpixel, auto focus, and two video lamps  Activated by dedicated button  USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: Data transfer to and from PC USB Mini-B: 20 High Speed  |
| Set-up commands  Web interface  Storage of images  Image storage type  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  Data communication interfaces  USB  USB, standard  Video  | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264  3.2 Mpixel, auto focus, and two video lamps  Activated by dedicated button  USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: Data transfer to and from PC  |
| Set-up commands  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 Digital camera video recording Non radiometric IR-video streaming Digital camera Built-in digital camera Laser Data communication interfaces USB  USB, standard Video Power system   | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264  3.2 Mpixel, auto focus, and two video lamps  Activated by dedicated button  USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: Data transfer to and from PC USB Mini-B: 2.0 High Speed HDMI                                    |
| 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  Digital camera video recording  Non radiometric IR-video streaming  Digital camera  Built-in digital camera  Laser pointer  Laser  Data communication interfaces  USB  USB, standard  Video  Power system  Battery type                                  | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264  3.2 Mpixel, auto focus, and two video lamps  Activated by dedicated button  USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: Data transfer to and from PC USB Mini-B: 2.0 High Speed HDMI  Rechargeable Li Ion battery       |
| 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  Data communication interfaces  USB  USB, standard  Video  Power system  Battery type  Battery voltage  | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264  3.2 Mpixel, auto focus, and two video lamps  Activated by dedicated button  USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: Data transfer to and from PC USB Mini-B: 2.0 High Speed HDMI  Rechargeable Li Ion battery 7.2 V |
| 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  Data communication interfaces  USB  USB, standard  Video  Power system  Battery type  Battery voltage  Battery operating time | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image is automatically associated with corresponding IR image. Visual image is automatically added to every image from built-in GPS  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264  3.2 Mpixel, auto focus, and two video lamps  Activated by dedicated button  USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: Data transfer to and from PC USB Mini-B: 2.0 High Speed HDMI  Rechargeable Li Ion battery 7.2 V > 3 hours at 25°C and typical use             |
| 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  Data communication interfaces  USB  USB, standard  Video  Power system  Battery type  Battery voltage  | Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image 1 programmable button, local adaptation of units, language, date and time formats Admin camera setup and viewing IR images  Removable SD or SDHC Memory Card, two card slots > 1200 images (JPEG) with post process capability per GB on memory card IR/visual images. Visual image 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  MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non radiometric IR-video. MPEG4/H.264 (25 minutes/clip) to memory card RTP/H.264  3.2 Mpixel, auto focus, and two video lamps  Activated by dedicated button  USB-A: Connect external USB device (e.g. memory stick) USB Mini-B: Data transfer to and from PC USB Mini-B: 2.0 High Speed HDMI  Rechargeable Li Ion battery 7.2 V |

| Environmental data                               |                                  |
|--|----------------------------------|
| Operating temperature range                      | -20°C to +50°C                   |
| Storage temperature range                        | -30°C to +60°C                   |
| Humidity (operating and storage)                 | IEC 68-2-30/24 h 95% relative    |
|  | humidity +25°C to +40°C (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                |
| 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 $(L \times W \times H)$ | 305 × 169 × 161 mm               |
| Tripod mounting                                  | Standard, 1/4"-20                |
| Housing material                                 | Aluminium, Magnesium             |
| Grip material                                    | TPE Thermoplastic Elastomers     |

| Scope of delivery  |
|--|
| Packaging, contents  |
| Infrared camera  |
| Standard Lens, 24° (Si)                                      |
| 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-DVI + HDMI-HDMI cable                                   |
| USB cable  |
| SD card  |
| SD card adapter (connects via USB to PC)                     |
| Getting Started Guide (printed)                              |
| Manual for GF-series on CD                                   |
| FLIR Quick report on CD                                      |
| Video Report 1.0 with manual on CD                           |
| System Calibration Certificate                               |
|  |



 $\label{thm:continuous} \textbf{Specifications and prices subject to change without notice}.$ 

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