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 non-compliance
- 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)

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

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.
### Imaging and optical data

- **Field of view (POV)/ 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**: Noise reduction filter, scene based NUC, High Sensitivity Mode (HSM)
- **Focal Plane Array (FPA) / Spectral range**: Cooled InSb / 3-5 µm
- **IR resolution**: 320 x 240 pixels
- **Detector cooling**: Stirling Microcooler (FLIR MC-3)
- **Sensor cooling**: TPE Thermoplastic Elastomers

### Electronics and data rate

- **Full frame rate**: 60 Hz
- **Image presentation**: Built-in widescreen, 4:3 in. LCD, 800 x 480 pixels
- **Viewfinder**: Built-in, tiltable OLED, 800 x 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)
- **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 line (horizontal or vertical)
- **Difference temperature**: Delta temperature between measurement functions
- **Reference temperature**: Manually set or captured from any measurement function
- **Emissivity correction**: Emissivity correction variable from 0.1 to 0.9 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
- **Zoom**: Auto adjust continuous/manual/semi-automatic
- **Palette**: Start/stop recording
- **Store image**: Playback/recall image
- **1 programmable button**, **local adaptation of units**, **language**, **date and time formats**

### 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**: Visual image. Visual image is automatically associated with corresponding IR image.

### Image formats

- **File formats**: Standard JPEG, 14 bit measurement data included
- **Location data**: Automatically added to every image from built-in GPS

### Video recording and streaming

- **Non radiometric IR-video recording**: MPEG4/H.264 (60 minutes/clip) to memory card. Visual image can be automatically associated with corresponding IR video.
- **Digital camera video recording**: MPEG4/H.264 (25 minutes/clip) to memory card

### Digital camera

- **Built in digital camera**: 3.2 Mpixel, auto focus, and two video lamps

### Laser pointer

- **Activated by dedicated button**

### Data communication interfaces

- **USB**: USB-A, Connect external USB device (e.g. memory stick)
- **USB Mini-B**: Data transfer to and from PC
- **USB, standard**: USB Mini-B: 2.0 High Speed
- **Video**: HDMI

### Power system

- **Battery type**: Rechargeable Li ion battery
- **Battery voltage**: 7.2 V
- **Battery operating time**: > 3 hours at 25°C and typical use
- **Charging system**: In camera (AC adapter or 12 V from a vehicle) or 2 bay charger
- **Start-up time**: < 5 min. @ 25°C

### Environmental data

- **Operating temperature range**: -20°C to +50°C
- **Storage temperature range**: -30°C to +80°C
- **Humidity tolerating and storage**: IEC 68-2-30/24 / 93% relative humidity; +25°C to +40°C (2 cycl)

### Directives

- **EMC**: EN55022 (Emission)
- **EN55024:1998 (Immunity)**
- **FCC 47 CFR Part 15 class B (Emission)**
- **EN 61 000-4-8 1, 5
- **EN61000-4-2002/06/05:**

### 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**: 2.49 kg
- **Battery weight**: 0.24 kg
- **Cameras size, incl. lens (L x W x H)**: 305 x 169 x 161 mm
- **Tripod mounting**: Standard, 1/4"-20
- **Housing material**: Aluminum, 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.
- **Lens cap strap**, 2 ea.
- **Shoulder strap**
- **Batteries 2 ea.** (1 of the batteries inside camera)
- **Chargers**
- **Power supply**
- **Power supply card**
- **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**