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 amount of gas leak 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

**Visualized gas leak in real-time**
FLIR GF320 can scan large areas rapidly and pinpoint leaks in real time. It is ideal for monitoring plants that it 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.

**Multi-purposes in gas leak detection**
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:**
- Gas leak detection in oil refineries
- Natural gas
- Power generation
- Petrochemical & chemical industries
### 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**: Noise reduction filter, scene based NIC, High Sensitivity Mode (HSM)
- **Focal Plane Array (FPA) / Spectral range**: Coolled InSb / 3-5 µm
- **IR resolution**: 320 x 240 pixels
- **Detector pitch**: 30 µm
- **Sensor cooling**: Stirling Microcooler (FLIR MC-3)

#### Electronic data and rate
- **Frame rate**: 60 Hz
- **Image presentation**
  - Display: Built-in video screen, 4.3 in. LCD, 800 x 480 pixels
  - Viewer: 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
- **Temperature range**: -40 to +350°C
- **Accuracy**: ±1°C for temperature range
  - or ±2% of reading for temperature range

#### Measurement analysis
- **Spotmeter**: 3
- **Area**: 1 box
- **Profile**: 1 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 0.1 to 1.0 or selected from editable materials list
- **Measurement corrections**: Automatic, based on input of reflected temperature

#### Set-up
- **Menu commands**:
  - Level, span
  - Auto adjust continuous/manual/semi-automatic
  - Zoom
  - Palette
  - Star/stop recording
  - Store image
  - Playback/recall image
- **Image storage type**: Removable SD or SDHC Memory Card, two card slots
- **Image storage capacity**:
  - > 5000 images (JPEG) with post process capability (4 GB SDHC card)
- **Image storage size**: 3.2 Mpixel, auto focus, and two video lamps
- **Camera size, incl. lens (L x W x H)**: 305 x 169 x 161 mm
- **Camera weight, incl. lens and battery**: 0.24 kg

#### Data communication interfaces
- **USB**: USB-A: Connects external USB device (e.g. memory stick)
- **USB mini-B**: Data transfer to and from PC
- **HDMI**
- **USB**: H.264 and MPEG-4
- **HDMI**: H.264 (25 minutes/clip) to memory card
- **External optics**: Reflected temperature, distance, atmospheric transmission, humidity, external optics

#### Power supply
- **Power**: 7.2 V
- **Battery**: 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
- **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**: 18.8 to 18 VDC, polarity protected (proprietary protected)
- **Power**: 8 W typically
- **Start-up time**: Stirling cool down: < 5 min. @ 25°C

#### Environmental data
- **Operating temperature range**: -30°C to +40°C
- **Storage temperature range**: -30°C to +50°C
- **Humidity (operating and storage)**: 60%RH (90%RH @ <30°C)
- **Directives**:
  - EN 61810-2-1 (Electromagnetic Emission)
  - EN 61010-2-0 (Immunity)
  - EN 61000-6-4; SFK1-96-64-55
  - EN 61000-6-2
- **Encapsulation**: IP 44 (IEC 60529)

#### Accessories
- **Camera weight, incl. lens and battery**: 2.4 kg
- **Battery weight**: 0.3 kg
- **Camera size, incl. lens (L x W x H)**: 205 x 168 x 161 mm
- **Tripod mounting**: Standard, 1/4”-20
- **Housing material**: Aluminum, Magnesium
- **Strip material**: TPE Thermoplastic Elastomers

#### Scope of delivery
- **Package**: Packaging, contents, Infrared camera, Manual for GF-series on CD, System Calibration Certificate, Lens Cleaning Cloth
- **System calibration certificate**: FLIR Quick report on CD

#### Packaging, contents
- **Infrared camera**
- **System Calibration Certificate**
- **Lens Cleaning Cloth**

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<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>IR camera</td>
<td>1</td>
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<tr>
<td>Packagin, contents</td>
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<tr>
<td>Lens cap (mounted on lens)</td>
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</tr>
<tr>
<td>Lens cap (backside of lens and opening on camera body)</td>
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<tr>
<td>Shoulder strap</td>
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<tr>
<td>USB cable</td>
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<td>SD card adapter</td>
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<tr>
<td>SD card adapter (connects via USB to PC)</td>
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<td>Software package</td>
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<td>Getting Started Guide</td>
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<td>Manual for GF-series on CD</td>
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<td>Power supply cord</td>
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<td>Stirling Cool down</td>
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