FLIR G306™

Industry-Leading Optical Gas Imaging (OGI) Camera for Sulfur Hexafluoride (SF_6)

The FLIR G306 is an innovative Optical Gas Imaging (OGI) camera used to detect sulfur hexafluoride (SF_6), ammonia (NH_3), ethylene (C_2H_4), and other industrial gas leaks. Designed with your safety and efficiency in mind, this advanced cooled thermal camera can detect dangerous and environmentally harmful gases from safe distances. Reduce inspection time by scanning large areas without interfering with electric utility delivery or shutting down industrial operations. Featuring a rotating, color LCD touch screen, the G306 is ideal for detecting gas in complex systems including electric utility transmission facilities and industrial plants. Combined with FLIR Ignite™ software, the FLIR G306 allows you to easily upload images and videos to the cloud where you can edit, organize, store, and share data.

SUPERIOR GAS VISUALIZATION

Detect gas leaks accurately in real-time

- Efficiently scan thousands of components with FLIR's patented High-Sensitivity Mode (HSM)
- Measure temperatures from -40°C to 500°C (-40°F to 932°F)
- Auto-adjust the level and span of your image with 1-Touch Level/Span
- Comfortably inspect facilities with superior ergonomics

IMPROVED SOFTWARE INTEGRATION

Record and report findings efficiently with the FLIR ecosystem

- Effortlessly edit and store images in the cloud, and wirelessly transfer files using the included FLIR Ignite cloud service
- Easily incorporate with third-party software solutions
- Built in Wi-Fi and Bluetooth® allow you to connect to smartphones or tablets
- Conveniently navigate large areas with FLIR Inspection Route and GPS log on board

BETTER ERGONOMICS FOR OPERATION

Comfortably interact with the camera

- Expand inspection capabilities with quick and easy exchangeable lens options
- View targets from any direction with rotating 10.16 cm (4 in) LCD touch screen
- Efficiently operate with improved touch screen Graphical User Interface (GUI)
- Advanced features to streamline the inspection process, including Multi-REC (recording mode)

SPECIFICATIONS

Detector and Optics Data	FLIR G306
IR Resolution	320 × 240 pixels
Thermal Sensitivity/NETD	15 mK at 30°C (86°F)
Detector Type	Focal plane array (FPA), cooled QWIP
Spectral Range	10.3 µm to 10.7 µm
Detector Pitch	30 µm
Sensor Cooling	Stirling Microcooler (FLIR MC-3)
Gas Sensitivity	SF_6: <0.3 ppm x m (ΔT = 10°C, Distance = 1 m)
Digital Image Enhancement	High sensitivity mode (HSM), noise reduction filter
Available Lenses	24° × 18° (23 mm); 14.5° × 10.8° (38 mm); 6° × 4.5° (92 mm)
F-Number	1.59
Focus	Autofocus, Manual focus
Image Presentation	
Display	4", 640 × 480 pixel rotatable, touchscreen LCD
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Image Presentation Modes	IR image, visual image, high sensitivity mode (HSM)
Color Palettes	Arctic, White hot, Black hot, Iron, Lava, Rainbow, Rainbow HC
Zoom	1–8× continuous, digital zoom
Laser Pointer	Class 2
Measurement & Analysis	
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)
Image Analysis	10 spots, 5 boxes with max/min/average, 1 line (horizontal or vertical), measurement corrections
Annotations	
Voice	60 seconds with Bluetooth on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Image Sketch	Yes: on infrared only

Communication & Data Storage	
FLIR Inspection Route	Enabled in the camera
MultiREC Recording	Record multiple files automatically in customizable order
GPS	Location data automatically added to every still image; first frame in video from built-in GPS; data logging feature
Compass	Yes
Cloud Services (via Wi-fi)	FLIR Ignite for direct, secure image uploading, organizing, storage, and sharing (required firmware available)
Storage Media	Removable SD card
Image File Formats	Standard JPEG, measurement data included. Infrared-only mode.
Communication Interfaces	USB 2.0, Bluetooth via headset, Wi-Fi, HDMI
Video Out	HDMI; DVI
Video Recording and Streaming	
Radiometric IR Video Recording	RTRR (.csq)
Non-Radiometric IR or Visual Video	H.264 to memory card
Radiometric IR Video Streaming	Over UVC
Non-Radiometric IR Video Streaming	H.264 (AVC) or MPEG4 over RTSP (Wi-Fi); MJPEG over UVC and RTSP (Wi-Fi)
Visual Recording	H.264 to memory card
Environmental & Certifications	
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)
Encapsulation	IP54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Additional Information	
Battery Type	Rechargeable Li-ion battery; 7.4 V, charged in camera or separate 2-bay charger
Battery Operating Time	>2.5 hours at 25°C (68°F) and typical use
Battery Charging Time	2.5 hours to 95% capacity, charging status indicated by LEDs
Camera Size	251.6 mm × 164.5 mm × 170.9 mm (9.9 in × 6.48 in × 6.73 in)
Camera Weight	3 kg (6.18 lb)
Mounting Interfaces	UNC ¼"-20
Box Contents	
Packaging	Infrared camera with lens, battery: 2 pcs., battery charger, power supply including multi-plugs, hand strap, neck strap, lens cap, lens cap strap, memory card, HDMI-HDMI cable, USB cable, screwdriver TX20, printed documentation, and hard transport case

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