## **\$**FLIR<sup>®</sup>

#### FLIR G343<sup>™</sup>

Industry-Leading Optical Gas Imaging (OGI) Camera for Carbon Dioxide (CO<sub>2</sub>)



The FLIR G343 is an innovative Optical Gas Imaging (OGI) camera used to visualize possible carbon dioxide  $(CO_2)$  gas leaks. Whether or not  $CO_2$  is a byproduct of a production process or used as a trace gas, the G343 is designed with your safety and efficiency in mind. This advanced cooled  $320 \times 240$  (76,800 pixels) resolution camera can detect  $CO_2$  leaks from a safe distance, reducing inspection time by scanning large areas without interfering or shutting down large-scale manufacturing operations. Featuring a rotating, color LCD touchscreen, the G343 is ideal for detecting  $CO_2$  gas in complex systems including enhanced oil recovery, carbon capture systems, and hydrogen-cooled power generators. Combined with FLIR Ignite<sup>™</sup> software, the FLIR G343 allows you to easily upload images and videos to the cloud where you can edit, organize, store, and share data.





www.flir.com/G343

#### SUPERIOR GAS VISUALIZATION

Detect gas leaks accurately in real-time

- Efficiently scan thousands of components with FLIR's patented High-Sensitivity Mode (HSM)
- 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 touchscreen
- Efficiently operate with improved touchscreen Graphical User Interface (GUI)
- Advanced features to streamline the inspection process, including Multi-REC (recording mode)

#### **SPECIFICATIONS**

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Spectral Range4.2 µm to 4.4 µmNameRadiometric IB Video StrainingH.284,IAVC) or MPG4 over RTSP [WI-FI]; M.9FG over UVC and FTSP [WI-FI]; M.9FG over UVC and FTSP [WI-FI]; M.9FG over RTSP [WI-FI]; M.9FG over UVC and FTSP [WI-FI]; M.9FG over RTSP [WI-FI]; M.9FG over UVC and FTSP [WI-FI]; M.9FG over RTSP [WI-FI]; M.9FG over RTSP [WI-FI]; M.9FG over RTSPSensor CoolingString Microcooler (FLR MC-3) Cosi String Tomperature Range-20°C to SO°C 147 to 122-FI FOC to SO°C 147 to 122-FIDigital Image Enhancement13.9 Annal focusStorage Tomperature Range-20°C to SO°C 147 to 122-FI FOC to SO°C 147 to 122-FIFixense24* x18* (23 mm 14.5* x10.8* (38 mm) Available LensoStorage Tomperature Range-20°C to SO°C 147 to 122-FIFixense24* x18* (23 mm 14.5* x10.8* (38 mm) Available CED, 800 x48 (90 kole) Range MichanStorage Tomperature Range-20°C to SO°C 147 to 124-FITomperature Range4* c40 x480 pixel rotatable, toucharcene LDD Notaci Marcel RangeStorage Tomperature Range25 (16 EG0 529) Coreas 24)Diplay4* c40 x480 pixel rotatable, toucharcene LDD Namode MichanRechargeable Li-Ion battery, 7.4 V, charged In camera or separate 2-Roy MichanStorage Charge Michan separate 2-Roy Michan separate 2-	<i>.</i>			,
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Inf Corr Costance - I m)Operating Temperature Range-00°C to 50°C 1-4° to 122°F, 144° to 122°F,Digital mage EnhancementHigh sensitivity mode (HSM), noise reduction filterStorage Temperature Range-30°C to 60°C, 122°F to 140°F,Available Lenses24°× 18° (23 mm; 14.5°× 10.8° (38 mm)Encepulation19°4 (EC 60068-2.27)FocusAutofocus, Manual focusVibration2 g (IEC 60068-2.67)FocusAutofocus, Manual focusVibration2 g (IEC 60068-2.67)FocusAutofocus, Manual focusVibration2 g (IEC 60068-2.67)FocusAutofocus, Manual focusMatter Construction2 g (IEC 60068-2.67)FocusAutofocus, Manual focusVibration2 g (IEC 60068-2.67)FocusAutofocus, Manual focusMatter Construction2 g (IEC 60068-2.67)FocusAutofocus, Manual focusVibration2 g (IEC 60068-2.67)FocusAutofocus, Manual focusMatter Construction2 g (IEC 60068-2.67)FocusBuiltin, titable OLED, 800 × 480 pixelsBattery TypeRehargenetic 1.00FocusBuiltin, titable OLED, 800 × 480 pixelsBattery Charging Time2.5 focus at 55°C (68°F) and typical useFocusInfraecovietusActic, White hot Black hot, Ion, Leva, Rainbow, Actic, Wile hot Black hot, Ion, Leva, Rainbow, Actic, Weight Jacon2.5 focus at 55°C (68°F) and typical useFocusInfraecovietusActic Autor Matter Matter, Matter Matter, Matter, Matter Matter Matter, Matter Matter, Matter Matter, Matt	0		Environmental & Certifications	
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Image Presentation       Additional Information         Display       4°, 640 × 480 pixel rotatable, touchscreen LCD       Battery Type       Rechargeable Li-ion battery; 7.4 V, charged in camera or separate 2-bay charger         Mage Presentation Modes       IR image, visual image, high sensitivity mode (HSM)       Battery Type       Rechargeable Li-ion battery; 7.4 V, charged in camera or separate 2-bay charger         Color Palettes       Arctic, White hot, Black hot, Iron, Lava, Rainbow, Rainbow, Rainbow, Baitow HC       Battery Operating Time       >2.5 hours to 5% capacity, charging status indicated by LEDs         Zoom       1-8× continuous, digital zoom       Class 2       Statery Operating Time       25.16 mm × 164.5 mm × 170.9 mm (9.9 in × 6.48 in × 6.73 in)         Annotations       Voice       60 seconds with Bluetont on still images and video       Camera Size       25.16 mm × 164.5 mm × 170.9 mm (9.9 in × 6.48 in × 6.73 in)         Text from predefined list or soft keyboard on touchscreen       Yes: on infrared only       Camera Weight       3 kg (6.18 lb)         MultREC Recording       Record multiple files automatically in customizable order       Docation data automatically added to every still image; first from reidefined list or soft keyboard order       USB cable, screwdriver TX20, printed documentation, and hard transport case         Grompass       Yes       Cocation data automatically added to every still image; first from in video from built-in GPS, data logging f	F-Number	1.59	Shock	25 g (IEC 60068-2-27)
Display Viewfinder4°, 640 × 480 pixel rotatable, touchscreen LCD Built-in, titable OLED, 800 × 480 pixelsRechargeable Li-ion battery; 7.4 V, charged in camera or separate 2-bay chargerViewfinderBuilt-in, titable OLED, 800 × 480 pixelsBattery TypeRechargeable Li-ion battery; 7.4 V, charged in camera or separate 2-bay chargerColor PalettesArctic, White hot, Black hot, Iron, Lava, Rainbow, Rainbow HCBattery Operating Time> 25 hours at 25° C (86° P) and typical useZoom1-8- continuous, digital zoom Class 2Camera Wile (150 M)3 kg (6.18 lb)Laser PointerClass 2UNC *-20Annotations60 seconds with Bluetooth on still images and video Text Text from predefined list or soft keyboard on touchscreen Yes: on infrared onlyInfrared camera with lens, battery: 2 pcs, battery charger, power supply including multi-plugs, hand strap, neck strap, power supply including multi-plugs, hand strap, neck strap, prover supply including multi-plugs, hand strap, neck strap, intrared only mode.Communication RoteEnabled in the camera fmare in video from built-in GPS; data logging feature fran	Focus	Autofocus, Manual focus	Vibration	2 g (IEC 60068-2-6)
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Image Presentation ModesIn Image, visual image, ingit sentitivity mode (HSM)Color PalettesArctic, White hot, Black hot, Iron, Lava, Rainbow, Rainbow MCStourge Scapacity, charging status indicated by LEDsZoom1–8× continuous, digital zoomCamera SizeZ51 6 mm × 164.5 mm × 170.9 mm (9.9 in × 6.48 in × 6.73 in)Laser PointerClass 2Stourge MediaB0 seconds with Bluetooth on still images and video TextSto genes with Bluetooth on still images and video TextUNC ½* 20PortationsBox ContentsDeckagingMouning InterfacesUNC ½* 20Communication & Data Storage FLI Inspection RouteEnabled in the camera MultiREC RecordingRecord multiple files automatically in customizable order farme in vide of rom built- in GPS, data logging featurePackagingInfrared camera vith lens, battery: 2 pes., battery charger, power supply including multi-plugs, hand strap, neck strap, lens cap, lens cap strap, memory card, HDMI-HDMI cable, USB cable, served/inter X20, printed documentation, and hard transport caseFLI Inspection RouteInabled in the camera frame in vide of rom built- in GPS, data logging feature farme in vide of rom built- in GPS, data logging feature farme in vide of rom built- in GPS, data logging feature farme in vide of rom built- in GPS, data logging feature farme in vide of rom public first frame in vide of rom built- in GPS, data logging feature farme in vide of rom built- in GPS, data logging feature farme in vide of rom built- in GPS, data logging feature farme in vide of rom built- in GPS, data logging featureCompassYesYesCloud Services (via Wi-fi)Storage Media Infrared-only mode.<	Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels	Pottory Operating Time	
Color PaletiesArctic, While not, Black hot, Iron, Lava, Halmoow, Rainboow HCby LEDsZoom1–8× continuous, digital zoomCamera Size251.6 mm × 164.5 mm × 170.9 mm (9.9 in × 6.48 in × 6.73 in)Laser PointerClass 23 kg (6.18 lb)3 kg (6.18 lb)Voice60 seconds with Bluetooth on still images and videoMounting InterfacesUNC ¼*-20TextText from predefined list or soft keyboard on touchscreenMounting InterfacesUNC ½*-20Image SketchYes: on infrared onlyPackagingInfrared camera with lens, battery: 2 pcs, had strap, neber strap, lens cap, lens cap strap, memory card, HDMI-HDMI cable, USB cable, screwdriver TX20, printed documentation, and transport caseFLIR Inspection RouteEnabled in the cameraNutliREC RecordingRecord multiple files automatically in customizable orderGPSLocation data automatically added to every still image; first frame in video from built-in GPS; data logging featureYesCompassYesFLIR Inspecting (required firmware available)Storage MediaRemovable SD cardImage File FormatsStandard JPEG, measurement data included. Infrared-only mode.Image Stele StorageStandard JPEG, measurement data included. Infrared-only mode.Communication InterfacesUSB 2.0, Bluetooth via headset, Wi-Fi, HDMI	Image Presentation Modes	IR image, visual image, high sensitivity mode (HSM)		
Zoom   1-8x continuous, digital zoom   Camera Weight   3 kg (6.18 lb)     Laser Pointer   60 seconds with Bluetooth on still images and video   Mounting Interfaces   UNC ¼-20     Text   60 seconds with Bluetooth on still images and video   Back Contents   Box Contents     Text   Text from predefined list or soft keyboard on touchscreen   Mounting Interfaces   Infrared camera with lens, battery: 2 pcs., battery charger, power supply including multi-plugs, hand strap, neck strap, lens cap, strap, memory card, HDMI-HDMI cable, USB cable, screwdriver TX20, printed documentation, and hard transport case     FLIR Inspection Route   Enabled in the camera   Infrared camera with lens, battery: 2 pcs., battery charger, power supply including multi-plugs, hand strap, neck strap, lens cap, strap, memory card, HDMI-HDMI cable, USB cable, screwdriver TX20, printed documentation, and hard transport case     FLIR Inspection Route   Enabled in the camera   Location data automatically added to every still image; first frame in video from built-in GPS; data logging feature     Compass   Yes   Ves     Cloud Services (via Wi-fi)   FLIR lighte for direct, secure image uploading, organizing, storage, and sharing (required firmware available)     Storage Media   Removable SD card   Horare data utomatically added to every still image; first frame in video from built-in GPS; data logging feature     Cloud Services (via Wi-fi)   Standard JPEG, measurement data included. Infrared-only mode.   Standard JPEG, measurement data included. Infrared-only mode. <	Color Palettes		Battery Charging Time	
Laser Pointer   Class 2     Annotations   Mounting Interfaces   UCX '4*20     Voice   60 seconds with Bluetoth on still images and video   Text from predefined list or soft keyboard on touchscreen   Mounting Interfaces   UCX '4*20     Image Sketch   Yes: on infrared only   Decation data Storage   Infrared camera with lens, battery: 2 pcs., battery charger, power supply including multi-plugs, hand strap, neck strap, lens cap strap, memory card, HDMI-HDMI cable, USB cable, screwdriver TX20, printed documentation, and hard transport case     FLIR Inspection Route   Enabled in the camera   Mounting Interfaces   USE cable, screwdriver TX20, printed documentation, and hard transport case     FUR Inspection Route   Enabled in data automatically added to every still image; first frame in video from built-in GPS; data logging feature   Ves     Compass   Yes   Yes   Storage, and sharing (required firmware available)     Storage Media   Removable SD card   Standard JPEG, measurement data included. Infrared-only mode.     Image File Formats   Standard JPEG, measurement data included. Infrared-only mode.   USB 2.0, Bluetooth via headset, Wi-Fi, HDMI	Zoom	1–8× continuous, digital zoom	Camera Size	251.6 mm × 164.5 mm × 170.9 mm (9.9 in × 6.48 in × 6.73 in)
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       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	Laser Pointer	Class 2	Camera Weight	3 kg (6.18 lb)
Voice     B0 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       FLIR Inspection Route     Enabled in the camera       MuttiREC 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 Ingine 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	Annotations		Mounting Interfaces	UNC ¼"-20
Text   Text from predefined list or soft keyboard on touchscreen   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     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 ling ter or 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	Voice	60 seconds with Bluetooth on still images and video	Box Contents	
Image Sketch     Yes: on infrared only     Iens cap, iens cap strap, memory card, HDMI-HDMI cable, USB cable, screwdriver TX20, printed documentation, and hard transport case       Communication & Data Storage     Enabled in the camera     USB cable, screwdriver TX20, printed documentation, and hard transport case       FLIR Inspection Route     Enabled in the camera     Record multiple files automatically in customizable order     USB cable, screwdriver TX20, printed documentation, and hard transport case       GPS     Location data automatically added to every still image; first frame in video from built-in GPS; data logging feature     FIIR Ignite for direct, secure image uploading, organizing, storage, and sharing (required firmware available)     FIIR Ignite for direct, secure image uploading, organizing, storage, and sharing (required firmware available)       Storage Media     Removable SD card     Storage, file Formats     Standard JPEG, measurement data included. Infrared-only mode.     USB 2.0, Bluetoth via headset, Wi-Fi, HDMI	Text	Text from predefined list or soft keyboard on touchscreen	Packaging	power supply including multi-plugs, hand strap, neck strap, lens cap, lens cap strap, memory card, HDMI-HDMI cable,
Communication & Data Storage     hard transport case       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	Image Sketch	Yes: on infrared only		
FLIR Inspection RouteEnabled in the cameraMultiREC RecordingRecord multiple files automatically in customizable orderGPSLocation data automatically added to every still image; first frame in video from built-in GPS; data logging featureCompassYesCloud Services (via Wi-fi)FLIR Ignite for direct, secure image uploading, organizing, storage, and sharing (required firmware available)Storage MediaRemovable SD cardImage File FormatsStandard JPEG, measurement data included. Infrared-only mode.Communication InterfacesUSB 2.0, Bluetooth via headset, Wi-Fi, HDMI	Communication & Data Storage			
GPSLocation data automatically adde to every still image; first frame in video from built-in GPS; data logging featureCompassYesCloud Services (via Wi-fi)FLIR Ignite for direct, secure image uploading, organizing, storage, and sharing (required firmware available)Storage MediaRemovable SD cardImage File FormatsStandard JPEG, measurement data included. Infrared-only mode.Communication InterfacesUSB 2.0, Bluetooth via headset, Wi-Fi, HDMI	FLIR Inspection Route	Enabled in the camera		1 .
CompassYesCloud Services (via Wi-fi)FLIR Ignite for direct, secure image uploading, organizing, storage, and sharing (required firmware available)Storage MediaRemovable SD cardImage File FormatsStandard JPEG, measurement data included. Infrared-only mode.Communication InterfacesUSB 2.0, Bluetooth via headset, Wi-Fi, HDMI	MultiREC Recording	Record multiple files automatically in customizable order		
Cloud Services (via Wi-fi)FLIR Ignite for direct, secure image uploading, organizing, storage, and sharing (required firmware available)Storage MediaRemovable SD cardImage File FormatsStandard JPEG, measurement data included. Infrared-only mode.Communication InterfacesUSB 2.0, Bluetooth via headset, Wi-Fi, HDMI	GPS			
storage, and sharing (required firmware available)     Storage Media     Image File Formats     Standard JPEG, measurement data included. Infrared-only mode.     Communication Interfaces     USB 2.0, Bluetooth via headset, Wi-Fi, HDMI	Compass	Yes		
Image File Formats     Standard JPEG, measurement data included.       Infrared-only mode.     Infrared-only mode.       Communication Interfaces     USB 2.0, Bluetooth via headset, Wi-Fi, HDMI	Cloud Services (via Wi-fi)			
Communication Interfaces   USB 2.0, Bluetooth via headset, Wi-Fi, HDMI	Storage Media	Removable SD card		
	Image File Formats			
Video Out HDMI; DVI	Communication Interfaces	USB 2.0, Bluetooth via headset, Wi-Fi, HDMI		
	Video Out	HDMI; DVI		

Specifications are subject to change without notice. For the most up-to-date specs, go to www.teledyneflir.com

For more information contact: Sales@TeledyneFLIR.com or to find your local support number, visit: flir.com/contactsupport



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