



FLIR Gx320 14.5°

P/N: 10401-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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General description

The FLIR G series is the latest addition to Optical Gas Imaging (OGI) with focus on the digital oilfield. While maintaining best in class image quality and gas detection sensitivity, it offers new features such as wireless connectivity and connection to the FLIR cloud.

Benefits

Newest in technology to meet today's operator

- The most easily connectable OGI camera
- Wireless communication
- Compatible with FLIR Ignite
- Easy to integrate with LDAR software

Both see and measure the gas leak in the camera

Unmatched gas sensitivity and advanced analytics onboard camera

- Quantification inside camera (Hydrocarbon version)
- 320 and 640 options available (Hydrocarbon version)
- Compliant with existing regulations (Gx version)

Better ergonomics and easier to operate

Refreshed hardware addressing user issues but maintaining a familiar experience

- Touch LCD screen
- Field exchangeable lenses
- Improved hardware and updated GUI

Imaging & Optical

IR resolution	320 × 240 pixels
Field of view (FOV)	14.5° × 10.8°
Focal length	38 mm (1.49 in.)
Minimum focus distance	0.5 m (1.64 ft.)
F-number	1.59
Focus	Manual focus
Zoom	1–8× continuous, digital zoom
Digital image enhancement	High sensitivity mode (HSM), Noise reduction filter
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Image presentation modes	IR image, Visual image, High Sensitivity Mode (HSM)

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Imaging & Optical	
Color palettes	• Arctic • White hot • Black hot • Iron • Lava • Rainbow • Rainbow HC
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) over RTSP (Wi-Fi) • MPEG4 over RTSP (Wi-Fi) • MJPEG over UVC and RTSP (Wi-Fi)
Visual recording	H.264 to memory card
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Built-in digital camera	5 Mpixels
Measurement & Analysis	
Thermal sensitivity/NETD	<10 mK @ +30°C (+86°F)
Measurement temperature range	–20°C to +350°C (–4°F to +662°F)
Available sub ranges	• –20°C to +10°C (–4°F to +50°F) • –10°C to +25°C (+14°F to +77°F) • +10°C to +50°C (+50°F to +122°F) • +40°C to +85°C (+104°F to +185°F) • +70°C to +120°C (+158°F to +248°F) • +100°C to +160°C (+212°F to +320°F) • +130°C to +200°C (+266°F to +392°F) • +180°C to +260°C (+356°F to +500°F) • +240°C to +350°C (+464°F to +662°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)
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 line (horizontal or vertical)
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
Gas quantification	Quantification onboard camera
Gas sensitivity	• CH₄: < 9.6 ppm x m • Hydrocarbons (multiple): < 4 ppm x m (ΔT = 10°C, Distance = 1 m)
Languages	21
Communication & Data storage	
FLIR Inspection route	Enabled in the camera
Cloud services (via Wi-Fi)	FLIR Ignite for direct, secure image uploading, organizing, storage, and sharing (required firmware available), wireless file transfer via userweb library
Bluetooth	Communication with headset
Storage media	Removable SD memory card

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Communication & Data storage	
Image file formats	Standard JPEG, measurement data included. Infrared-only mode.
Communication interfaces	USB 2.0, Bluetooth, Wi-Fi, HDMI
Video out	HDMI 640 × 480 HDMI 1280 × 720 DVI 640 × 480 DVI 800 × 600
Radio	Operating frequency - Bluetooth + EDR: 2402–2480 MHz - WLAN 2.4 GHz: 2412–2462 MHz - WLAN 5 GHz: 5150–5250 MHz Note that frequency band 5150–5250 MHz is for indoor use only, see national regulations. RF output (EIRP) - Bluetooth + EDR: < 10 dBm - WLAN: < 17 dBm Antenna - Integrated PIFA antenna (gain: maximum 2.6 dBi)
Recording modes	Multi-REC, Periodic storage
General	
Package size	600 × 510 × 410 mm (23.6 × 20.1 × 16.1 in.)
Package weight	14.2 kg (31.3 lb.)
Camera size (L × W × H)	251.6 × 164.5 × 170.9 mm (9.9 × 6.48 × 6.73 in.)
Camera weight	3.0 kg (6.61 lb.)
Mounting interface	UNC 1/4"-20
List of contents	- Infrared camera with lens - Battery, 2 pcs. - Battery charger - Power supply - Hand strap - Neck strap - Lens cap - Lens cap strap - Memory card - HDMI-HDMI cable - USB cable - Screwdriver TX20 - Printed documentation - Hard transport case
GPS	Location data automatically added to every still image and first frame in video from built-in GPS
Laser pointer	Class 2 Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
EAN-13	7332558030769
UPC-12	845188028053
Country of origin	Sweden
User interface	
Display	640 × 480 pixels (VGA)
Display frame rate	60 Hz
Voice	60 seconds with Bluetooth on still images and video

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User interface	
Text	Text from predefined list or soft keyboard on touchscreen
Image sketch	Yes: on infrared images
Power	
Battery type	Rechargeable Li ion battery
Battery weight	232 g (8.2 oz.)
Battery voltage	7.4 V
Battery capacity	5.5 Ah
Battery operating time	> 2 hours at 25°C (+68°F) and typical use
Battery charging time	2.5 h to 95% capacity, charging status indicated by LED's
Startup time	Typically 7 min. @ 25°C (+77°F)
Battery documents	For documents like MSDS and UN38.3 test reports/summaries, see: https://support.flir.com/resources/msds
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)
Humidity	IEC 60068-2-30 / 24h 95% Relative Humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Low voltage	73/23/EEC
RoHS	2011/65/EU
WEEE	2012/19/EU
RED	2014/53/EU
EMC	- ETSI EN 301 489-1 (radio) - ETSI EN 301 489-17 - EN 55032 (emission) - EN 55035 (immunity) - EN 61000-4-8 Level 5 (magnetic field) - EN 61000-6-2, Immunity Industrial Environment - FCC 47 CFR part 15 B, class B (emission) - ICES-003
Radio spectrum	- ETSI EN 300 328 - ETSI EN 301 893 - FCC 47 CFR part 15 C - FCC 47 CFR part 15 E - RSS-247
Encapsulation	IP 54 (IEC 60529)
Hazardous location compliance	- ATEX/IECEx, Ex ic nC op is IIC T4 Gc II 3 G - ANSI/ISA-12.12.01-2013, Class I Division 2 - CSA 22.2 No. 213, Class I Division 2
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/IEC 62368-1 2014
Declaration of conformity	See: https://support.flir.com/resources/DoC

Supplies & accessories:

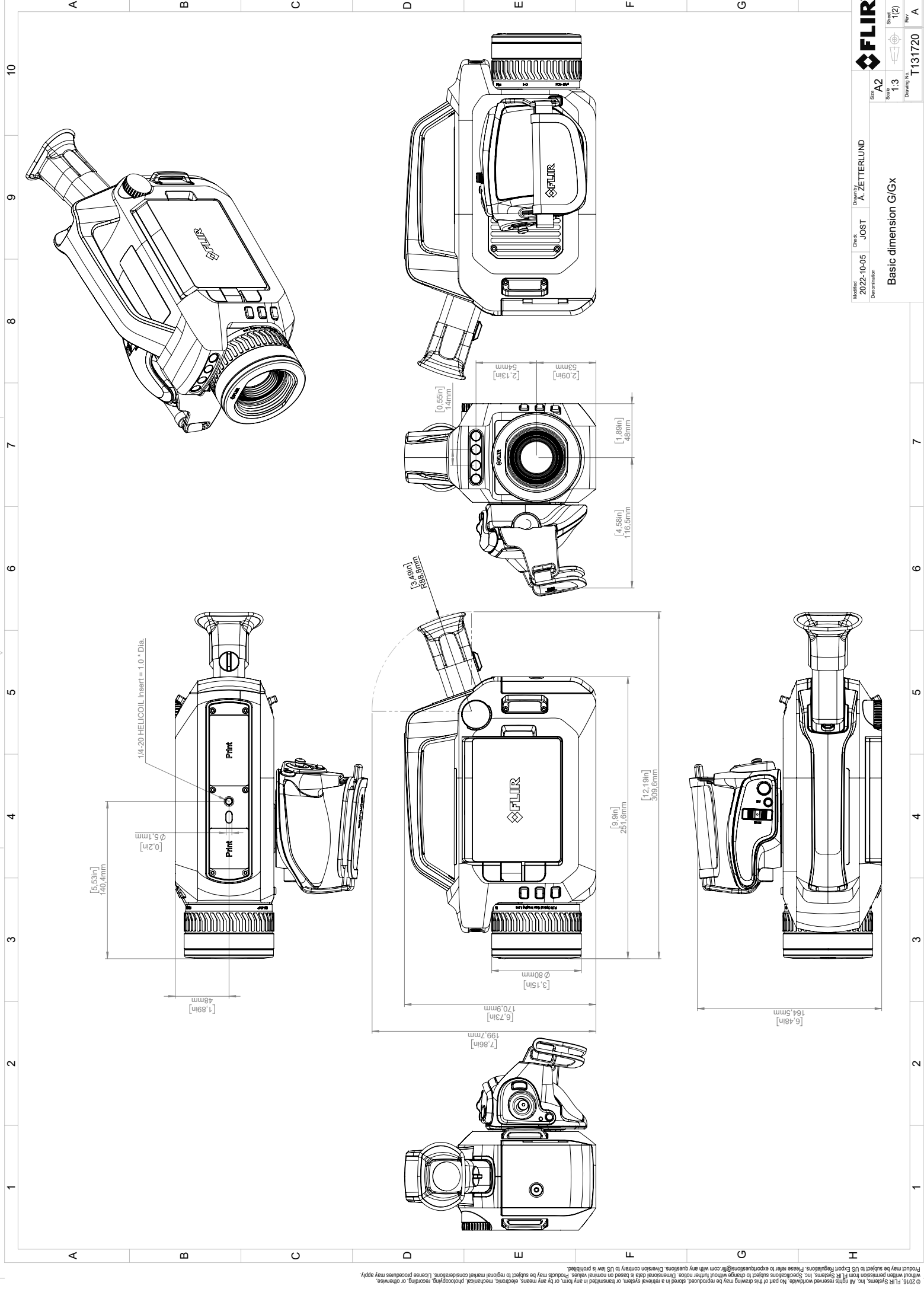
- T300571ACC; Battery charger G-series
- T300450ACC; Battery G-series

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- T131735ACC; Camera body cap
- T912246ACC; Car adapter 12 V, round connector
- T131757ACC; Hand strap
- T300580ACC; Hard transport case for FLIR G-series
- T300682; Lens 14,5° 3-5µm Manual Focus
- T300686; Lens 24° 3-5µm Manual Focus
- T300680; Lens 6° 3-5µm Manual Focus
- T131726ACC; Lens cap, back
- T131724ACC; Lens cap, front 80 mm
- T131725ACC; Lens cap, front 92 mm
- T131758ACC; Neck strap
- T911881ACC; Camera bag and harness, G series
- T911975ACC; Memory card SD 16 GB
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T300030; Option, No radio
- T129867ACC; Lens cap strap
- T911633ACC; Power supply for battery charger
- T911940ACC; USB 2.0 A to USB Type-C cable, 1.0 m
- T911309ACC; Screwdriver TX20



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Size
A2

Scale
1:3

Sheet
1(2)

Rev.
A

Modified
2022-10-05

Check
JOST

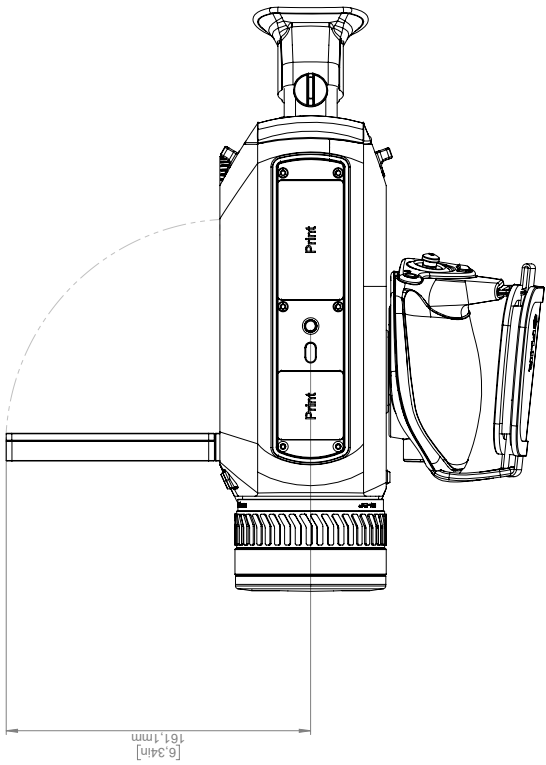
Drawn by
A. ZETTERLUND

Dimension
Decomposition

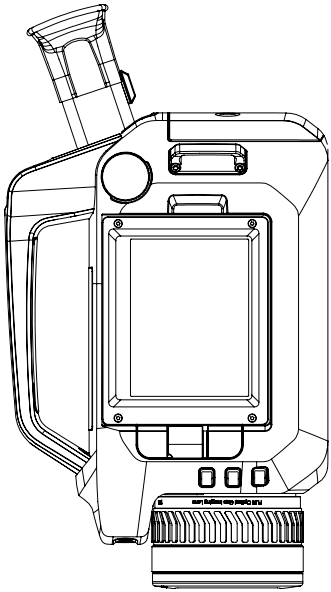
Basic dimension G/Gx

Drawing No.
T131720

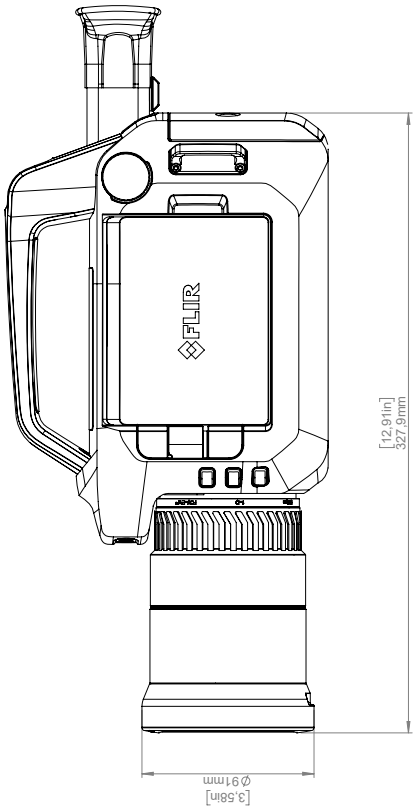
Fully opened display



Closed with rotated display



With IR Lens 6°



FLIR

Size A2

Scale 1:2

Drawn By T131720

Revised 2(2)

Rev A

Modified 2022-10-05

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Denotation

Basic dimension G/Gx