

FLIR G620a

Fixed-Mount Hydrocarbon/VOC Optical Gas Imaging (OGI) Camera

www.flir.com/products/G620a



SPECIFICATIONS

Imaging and optical		
IR resolution	640 × 512	
Field of view (FOV)	6° lens: 6° × 4.8° 14.5° lens: 14.4° × 11.5° 24° lens: 23.6° × 19°	
Focal length	6° lens: 92 mm 14.5° lens: 38 mm 24° lens: 23 mm	
Minimum focus distance	6° lens: 2 m 14.5° lens: 0.5 m 24° lens: 0.3 m	
Focus	Motorized	
Zoom	Digital zoom, 1x, 2x, 4x, 8x	
Digital image enhancement	High sensitivity mode (HSM)	
Detector type	High Operating Temperature (HOT) MWIR T2SLS	
Spectral range	3.2-3.4 µm	
Detector pitch	15 µm	
F/#	f/1.59	
Frame rate	30 Hz	
Sensor cooling	FLIR FL100 Linear cooler	
Image modes	IR image, high sensitivity mode (HSM)	
Automatic image adjustment	Linear, PE	
Color palettes	Selectable 8-bit	
Overlay	RTSP Only	

Specifications subject to change. For the most up-to-date specifications, please visit flir.com.

Gases Detected

Hydrocarbons, methane (CH_a), and other Volatile Organic Compound (VOC) emissions

Key Features

- Unmatched image clarity to visualize even small gas leaks thanks to highresolution, high sensitivity cooled sensor
- Rely on consistent monitoring with more than 27,000 hours of runtime needed before service (mean time to failure)
- · Connect and run cameras easily through included web interface, available software development kits (SDKs), and industry-standard protocol GigE vision

Main Applications

- Meet methane and VOC detection sensitivity requirements set forth in U.S. EPA 0000a and Appendix K
- Achieve global ESG pledges to reduce hydrocarbon and methane emissions
- Mitigate emission events where methane is low in overall gas composition percentage

Measurement & Analysis	
Thermal sensitivity (NETD)	<15 mK at 25°C
Temperature measurement range	-10°C to 120°C
Temperature measurement sub-ranges	-10°C to 30°C 10°C to 60°C 30°C to 80°C 55°C to 120°C
Ambient drift compensation (with factory calibration)	Yes
Accuracy	≤100°C ±2°C, >100°C ±2% of reading
Gas sensitivity	NECL: 1 m ΔT 10°C Methane: 16 ppm × m Hydrocarbons (niabara gas mix): 6.4 ppm × m
Communication & Data Stora	ge
Synchronization modes	Sync In
Radiometric IR video recording	None
Non-radiometric IR recording	None
Radiometric IR video streaming	GigE Vision
Non-radiometric IR video streaming	H.264 or MJPEG over RTSP
Command & control	GEV: Genicam; RTSP: Web Interface, REST API
Storage media	None
Digital I/O connector type	M12 12-pin A-coded, Male (shared with external power)
Digital inputs	2x opto-isolated, Vin(low)= 0-1.5 V, Vin(high)= 3-25 V
Digital outputs	3x opto-isolated, 0—48 V DC, max. 350 mA; solid-state opto relay; 1x dedicated as Fault output (NC)
Communication interfaces	Ethernet

For technical or sales support, please visit: www.flir.com/about/general-inquiries

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Revised 02/28/24 G620a-Datasheet-LTR 24-0050-INS



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SPECIFICATIONS, CONT.

Power		
Primary power source	PoE+ Type 2 (30 W min)	
Optional DC power connection	M12 12-pin A-coded, male (shared with Digital I/O)	
Power consumption	25 W (cool down)	
DC voltage range	18 V-56 V	
Environmental & Certification	ns	
Operating temperature range	-20°C to 50°C	
Directives	EMC: 2014/30/EU, WEEE: 2012/19/EU	
EMC	EN55032:2015/A11:2020 EN55035:2017/A11:2020 FCC Part 15, Subpart B ClassA KC C 9832 and KS C 9835	
Encapsulation	IP50	
Vibration	10-58 Hz, 0.15 mm; 58-500 Hz, 2 g; 5 cycles, 1 oct/min; X,Y&Z (IAW MIL-STD-810H)	
Shock	25 g, 6 ms; Half sine; ± 500 shocks; X,Y&Z (IAW MIL-STD-810H)	
General		
Camera size w/o lens	200 × 76 × 92 mm (7.9 × 3.0 × 3.6 in)	
Camera size w/lens	With 6° lens: $297 \times 99 \times 99$ mm (11.7 \times 3.9 \times 3.9 in) With 14.5° lens: $229 \times 76 \times 95$ mm (9.0 \times 3.0 \times 3.8 in) With 24° lens: $229 \times 76 \times 95$ mm (9.0 \times 3.0 \times 3.8 in)	
Camera weight w/o lens	1.32 kg (2.9 lbs)	
Camera weight w/lens	With 6° lens: 1.90 kg (4.14 lbs) With 14.5° lens: 1.48 kg (3.22 lbs) With 24° lens: 1.50 kg (3.27 lbs)	
Mounting	w/Mounting plate - $2 \times 1/4$ "-20 tapped holes, $1 \times 3/8$ "-16 tapped hole, $4 \times \#10$ -24 tapped holes w/o Mounting plate - $6 \times \#6$ -32	
Box Contents	Camera w/lens; M12 to RJ45F Cable (0.3m), quick start guide, certificate of calibration	

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For more information about FLIR G620a, please scan or visit:

