Seek G300

ALL-IN-ONE THERMAL MONITORING SOLUTION For Early fire detection, condition Monitoring, and process control.

CAMERA HIGHLIGHTS

- 320 x 240 Thermal sensor
- -4°F to 1,022°F (-20°C to 550°C) detection range
- Web browser set up, configuration, and viewing
- Power and communication over Ethernet



- thermal.com
- On-camera analytics and alarm functionality
- IP67 rating for harsh environments



Part Numbers With 4mm Lens: **GQ-4ACX** With 9mm Lens: **GQ-9ACX**

Seek G300 is your all-in-one thermal monitoring solution for early fire detection, condition monitoring, and process control. The G300 lets you detect potential issues before they escalate with real-time temperature monitoring. Conveniently set up and operate the camera through the web browser interface with no additional software or hardware required. Receive instant notifications and alerts when temperature thresholds are exceeded, or unusual patterns are detected.

Whether used as a standalone system or integrated into existing solutions, Seek G300 is the ideal choice for fixed-mount thermal monitoring.

Designed and Manufactured in the USA with Global Components. NDAA Compliant.





KEY FEATURES

320 x 240 Thermal Sensor with SV1 76,800 temperature pixels with Seek's SV1 Image Optimization delivers higher detail, better contrast, and more edge clarity.

Monitor Multiple Areas of Interest

Set up multiple zones and points of interest in a single scene with customizable temperature thresholds, warnings, and alarms.

Mixed Gain Mode

Observe high and low temperatures simultaneously with low noise and maximum image clarity.

Web Browser Configurator

Easy set up, configuration, and viewing with no extra software or additional hardware required.

IP67 Rated For Harsh Environments

Ruggedized M12 PoE connector and durable housing. Compatible with 3rd party enclosures for extreme environments.

BENEFITS

Early Fire Detection Built-in alarm analytics enable swift and accurate fire detection at its earliest stages, enhancing safety measures in various environments.

24/7 Condition Monitoring Identify heat-related problems before they escalate, minimizing downtime and optimizing operational efficiency.

Customizable Solutions Use pre-built features through the web configurator or take advantage of RESTful APIs for custom integration with existing systems.

Safeguard Assets and Improve Safety Quickly retrieve thermal data to catch potential failures before they occur.

Monitor Machinery to Detect Failures Enhance situational awareness and detect faults or fires before signs of flames or smoke.

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Introducting Seek Live View

Included with the **G300** is Seek Live View. It simplifies the control, setup, and monitoring of your **G300**'s operations. The inclusion of historical logs ensures you'll capture and retain all the information you need. Benefit from advanced analysis tools and automated alerts, with key features such as:

- Easy Setup: Get up and running quickly with customizable options, minimizing downtime
- Smart Control: Set up alarms that work seamlessly with your equipment, giving you better control
- **Custom Inspections**: Tailor areas of interest with simple pass/fail settings, allowing you to monitor objects and processes simultaneously
- Flexible Monitoring: Check temperature data anytime, anywhere continuously, intermittently, or remotely to suit your needs







Seek G300



Technical Specifications - G300			
Sensor Resolution	320 x 240		
Microbolometer	Uncooled Vanadium Oxide		
Pixel Pitch	12 µm		
Spectral Response	7.8 - 14 µm		
Sensor Frame Rate	> 25 Hz		
Object Measurement Range	-20°C to 550°C (-4°F to 932°F)		
Object Imaging Range	-20°C to 550°C (-4°F to 932°F)		
Accuracy ¹	The greater of ±5°C (±9°F) or 5% between 5°C to 100°C scene temperatures		
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Sensor Sensitivity	< 35 mK @ 25°C w/ SV1 Image Optimization		
Power	Power Over Ethernet, PoE IEEE 802.3af class 0		
Power Consumption	3.5 W typical		
Connector Type	M12 X-coded		
Optics			
Focal Length	4.0 mm	9.1 mm	
Spatial Resolution (IFOV, center)	3.00 mrad	1.32 mrad	
Field of View (H x V)	56° x 42°	24° x 18°	
Focus	Fixed		
Lens Protective Window Material	Silicon		
Measurement Analysis			
Temperature Spots	10 measurement spots		
Areas of Interest (AOI)	5 boxes (with min/max/average temperature measurements)		
Exclusion Zones	3 masks (blank out/ignore pixels)		
Alarms			
Alarm functions	Above/Below threshold temperature		
Alarm output	RESTful API, store image, store video, store alarm log		
Interfaces			
Configuration	Web interface, browser based		
Ethernet Protocols	DHCP, HTTP, IEEE 1588, RESTful API		
Image Streaming	RTSP		
Environmental			
Encapsulation	IP 67		
Operating Temperature Range	-10°C to 60°C (14°F to 140°F)		
Storage Temperature Range	-40°C to 80°C (-40°F to 176°F)		
	EN 61000-6-2:2005/AC:2005 (Immunity)		
EN 61000-6-4:2007/A1·2011 (Emission)		A1:2011 (Emission)	
	FCC CFR 47 Part 15 Subr	FCC CFR 47 Part 15 Subpart B Class A (Emission)	
Vibration Resistance	IEC 60068-2-6 (0 15mm amplitude 10–58Hz 2g accel at 58–500Hz sinusoidal)		
Shock Resistance	IEC 60068-2-27 (25 G)		
Corrosion Resistance	IEC 60068-2-11 (salt mist)		
Physical Data			
Camera Size (L x W x H)	105 x 50 x 50 mm (4.13 x 1.97 x 1.97 in.) incl. connector		
Camera Weight	340 grams (0.75 lbs)		
	4x M4 mounting		
Mounting (base)		0" UNC	

¹ At ambient temperature 25°C (77°F) with calibration geometry

Specifications and undocumented specifications are subject to change without notice.



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Seek Thermal engineers, designs and manufacturers high quality thermal imaging products and core platforms for consumer, commercial, and heat sensing IoT data applications. With headquarters in Santa Barbara, California, the global hub of thermal imaging innovation, the company has developed breakthrough thermal imaging camera cores that will enable a range of affordable products for use at home, work and play. For more information visit thermal.com and follow #seekthermal on Instagram and @seekthermal on Twitter.