

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

Seek[®]
thermal

MOVITHERM
advanced thermography solutions

movitherm.com



Part Numbers

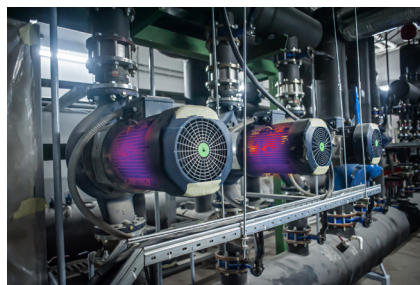
With 4mm Lens: **GQ-4ACX**

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.

Technical Specifications - G300		
Sensor Resolution	320 x 240	
Microbolometer	Uncooled Vanadium Oxide	
Pixel Pitch	12 μ m	
Spectral Response	7.8 - 14 μ m	
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 $\pm 5^\circ\text{C}$ ($\pm 9^\circ\text{F}$) or 5% between 5°C to 100°C scene temperatures Typical performance $\pm 10\%$ between 100°C and 550°C scene temperatures	
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)	
EMC	EN 61000-6-2:2005/AC:2005 (Immunity) EN 61000-6-4:2007/A1:2011 (Emission) 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)	
Mounting (base)	4x M4 mounting 1x 1/4-20" UNC	

¹ At ambient temperature 25°C (77°F)

Specifications and undocumented specifications are subject to change without notice.



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MoviThERM, established in 1999, is dedicated to advancing thermographic technology for a variety of applications, including early fire detection, condition monitoring, and non-destructive testing. Our experience, bolstered by strategic partnerships, ensures that our clients are equipped with the latest in smart IR solutions. With our focus on client satisfaction and a mission to provide quality, cost-effective thermal imaging systems, MoviThERM customers benefit from tailored, state-of-the-art solutions designed to meet specific application needs and operational demands.