

# iTL Thermal Monitoring Kit

For Effortless Remote Thermal Monitoring

**MOVI THERM**  
advanced thermography solutions

A do-it-yourself thermal monitoring kit: This multi-infrared camera pack preemptively detects hot spots and monitors asset health, all while offering event-based notifications for real-time updates. It's user-friendly – no software installation is needed. Just mount the camera and gateway, connect them to the same network, and monitor. Stay informed 24/7 with instant alerts via text, voice, and email, giving you unmatched peace of mind. Access images and trends anytime, anywhere. With MoviTHERM, experience safety made simple and gained complete peace of mind.



## Highlights:

- Includes everything needed to start monitoring:
  - 1 x Seek G300 infrared cameras
  - 1 x iTL Gateway
  - 1-year FREE subscription to iTL Studio
- Stay in the know with easy-access dashboards highlighting temperature trends and IR image snapshots.
- Communicate system health and temperature threshold alarms via email, text, or voice calls.
- Easy to add more cameras as needed.
- Perfect for early fire detection and condition monitoring applications.

## Specifications

SEEK G300 IR Camera Data	
IR resolution	320 x 240
Object temperature range	-20°C to 550°C (-4°F to 1022°F)
Sensitivity	35 mK @ 25°C w/SV1 Image Optimization
Accuracy	±5°C or ±2% between 5°C to 550°C @ 25°C ambient
On Camera Measurement	x 10 Spots, x 5 Areas (min/max/avg), exclusion zones (ignore pixels)
Focus	Fixed
FOV Options	3.7mm, 61° x 45° (Part# GQ-4ACX) / 9.1mm, 24° x 18° (Part# GQ-9ACX)
Spatial Resolution (IFOV)	3.20 mrad/pixel (Part# GQ-4ACX) / 1.32 mrad/pixel (Part# GQ-9ACX)
Detector Pitch	12 µm
Spectral Range	7.8–14.0 µm
Frame Rate	>25 Hz
Encapsulation	IP67
Operating Temperature Range	-10°C to 60°C (14°F to 140°F)
Camera Size (L x W x H)	105 mm x 50 mm x 50mm (including connector)
Camera Mounting (base)	4 x M3, 1 x 1/-20" UNC
Camera Power	Power Over Ethernet, PoE IEEE 802.3af class 0

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iTL Studio	
<b>Dashboards</b>	User-defined layout with custom widgets for IR image snapshot and history scroll, IR camera temperature measurement and trend, camera internal temperature and trend, alarm summary table, *cellular signal strength and data usage.
<b>Views</b>	Upload facility overhead photos, maps, or CAD schematics: overlay cameras and sensors with alarm status graphics. IR image snapshot with history scroll.
<b>Alerts &amp; Notifications</b>	Customized alerts and alarm notifications via text message, email, and dashboard.
<b>Auto-Dialer</b>	Virtual Auto-Dialer, message creation via text-to-speech interface.
<b>Alarm Response Time</b>	Locally via Gateway immediately upon breach of alarm threshold. Gateway signals cloud server an alarm condition, independent of cloud data update rate.
<b>Reports</b>	Dashboard Reports, Scheduled reports via email, customizable for daily, weekly, monthly
<b>Address Book &amp; Groups</b>	Contact name, email, and mobile phone inputs. Organize by groups to coordinate notifications with shift schedules.
<b>System Access</b>	OS independent. Connect with any smart internet-connected device with access rights.
<b>Licenses</b>	Unlimited with paid subscription.
<b>Security</b>	Amazon Web Services 2048-bit encryption. *Secure off-network via cellular connection.
iTL Gateway	
<b>Internet Connection</b>	Via existing customer network (Model ITL-GTW-ETH-WW)
<b>Remote Support</b>	via Encrypted VPN, included with all subscriptions
<b>Gateways &amp; Protocols</b>	Ethernet/IP, HTTP/HTTPS, Modbus/TCP, MQTT with TLS (MQTTS)
<b>Gateway Size (L x W x H)</b>	132 x 84 x 25 mm (5.2 x 3.3 x 1.0 in)
<b>Connectivity</b>	2 x GigE/1000Mbs Ethernet Ports Built-in GPS/GNSS
<b>Outputs</b>	4 Digital Outputs, 24V EN 61131-2
<b>Gateway Mounting</b>	DIN Rail (with adapter), Panel Mount, VESA Mount (with adapter)
<b>Operating Temperature</b>	-40°C to 80°C (-40°F to 176°F)
<b>Supply Voltage</b>	8V to 36V DC
<b>Power Consumption</b>	3W to 8W Operating
<b>Compatible IR Cameras</b>	SEEK G300 Guardian Series, FLIR AXX, AXXX Smart Series

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. For more detailed information, please visit [movitherm.com/about-us/](http://movitherm.com/about-us/).