

Enhanced with the precision of FLIR A50 and A70 infrared cameras, this do-it-yourself thermal monitoring kit steps up in preemptively detecting hot spots and monitoring asset health. Designed for simplicity, there's no need for software installation. Mount the cameras with the gateway, connect them to your network, and begin your comprehensive monitoring experience. Stay informed around the clock with instant alerts via text, voice, and email, offering you unmatched peace of mind. Moreover, access to images and analytical trends is available anytime, anywhere. With the inclusion of MoviTherm and the advanced capabilities of FLIR A50 and A70 cameras, experience a blend of safety, simplicity, and effectiveness.

### Highlights:



- Includes everything needed to start monitoring:
  - 1 x FLIR A50 or A70 infrared camera
  - 1 x iTL Gateway
  - 1-year subscription 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

FLIR A50 / A70 IR Camera Data		
IR resolution	464 x 348 (A50)	640 x 480 (A70)
Object temperature range	-20 to 175°C (-4 to 347°F) 175 to 1000°C (347 to 1832°F)	
Sensitivity	<35 mK	
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15°C–35°C (59°F–95°F)	
On Camera Measurement	10 Spotmeters, Boxes, or Mask polygons, 3 Deltas, 2 Isotherm, 2 Iso-coverage, 1 Reference temperature, 2 Lines, 1 Polyline	
Focus	Fixed, adjustable with included tool	
FOV Options	4.1 mm, 95° x 74° / 8.2 mm, 51° x 39° / 14.3 mm, 29° x 22°	
Spatial Resolution (IFOV)	4.2 mrad (4.1 mm) / 2.1 mrad (8.2 mm) / 1.2 mrad (14.3 mm)	2.9 mrad (4.1 mm) / 1.5 mrad (8.2 mm) / 0.8 mrad (14.3 mm)
Detector Pitch	17 µm (A50)	12 µm (A70)
Spectral Range	7.5–14.0 µm	
Frame Rate	30 Hz	
Encapsulation	IP67	
Operating Temperature Range	-20 to 50°C (-4 to 122°F)	
Camera Size (L x W x H)	107 x 67 x 57 mm (4.21 x 2.64 x 2.24 in)	
Camera Mounting (base)	4 x M2.5 direct into camera or 4x 10-32 UNF onto bottom cooling plate	
Camera Power	7.5 W at 24 V DC typical • 7.8 W at 48 V DC typical • 8.1 W at 48 V PoE typical	

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/1000Mbps 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

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/).