

# FLIR

## I/O Solutions for FLIR AX8 Thermal Cameras

MIO-AX8-1



MIO-AX8-7



FLIR AX8

The MIO Series Intelligent I/O solutions are designed to turn FLIR thermal imaging temperature sensors into complete remote monitoring systems. Easy to set up and easy to configure, the MIO Series is your remote monitoring solution for process control, condition monitoring, and fire prevention.

The MIO Series is an intelligent module that can be easily configured via the built-in web server. Once connected with up to seven FLIR thermal imaging temperature sensors, the MIO module can target designated regions or areas of interest (ROI) and start monitoring. The module can be programmed through the web server to alarm when a temperature threshold is breached, updating in real time. The MIO can also output an analog 4 to 20 mA current loop signal per each region of interest, providing the user with process control options.

### Key features

- Compatible with FLIR® AX8 Cameras
- Monitor 1 to 7 Cameras
- Configure Alarms via built-in Web Server
- Digital Outputs (24 VDC)
- 4-20 mA Outputs
- Ethernet Connectivity

### Typical applications

- Critical Vessel Monitoring
- Condition Monitoring
- Process Monitoring
- Early Fire Detection

### FLIR AX8

FLIR AX8 is a thermal sensor with imaging capabilities. Combining thermal and visual cameras in a small, affordable package, the AX8 provides continuous temperature monitoring and alarming for of critical electrical and mechanical equipment.

The AX8 helps you guard against unplanned outages, service interruptions, and equipment failure. You'll get the benefits of continuous condition monitoring and hot spot detection without the need for periodic manual scans.

Compact and easy to install, AX8 provides continuous monitoring of electrical cabinets, process and manufacturing areas, data centers, energy generation and distribution, transportation and mass transit, storage facilities and refrigeration warehouses.

### Automatic analysis and alarms

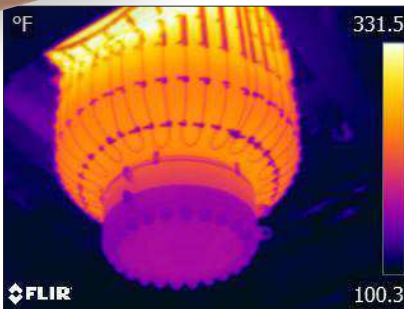
With its streaming video output, the AX8 not only gives you live video of every installation, but it also provides automated alarming when pre-set temperature thresholds are exceeded as well as temperature trend analysis.

### Industrial protocol

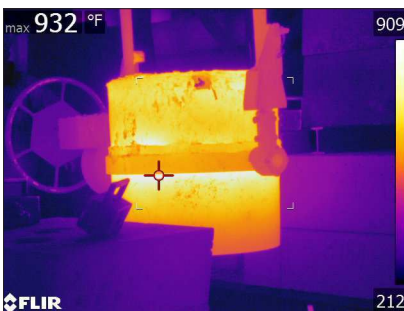
Since FLIR AX8 is Ethernet/IP and Modbus TCP compliant analysis and alarm results can easily be shared to a PLC. Digital inputs/outputs are available for alarms and control of external equipment. An image masking function allows you to select only the relevant part of the image for your analysis.

### Compact & Easy to install

Combining thermal and visual cameras in a small, affordable package, the AX8 measures only 54 x 25 x 95 mm, making it easy to install in space-constrained areas for uninterrupted condition monitoring of critical electrical and mechanical equipment.



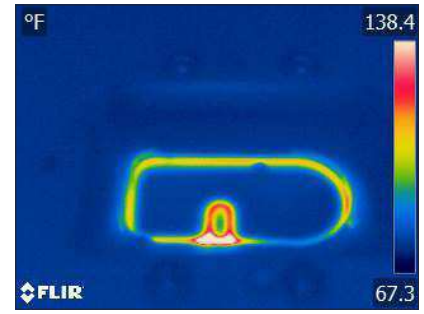
Critical vessel monitoring



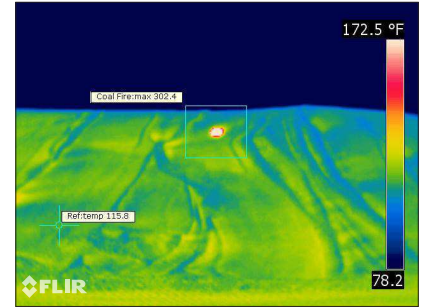
Condition monitoring

## Technical Specifications

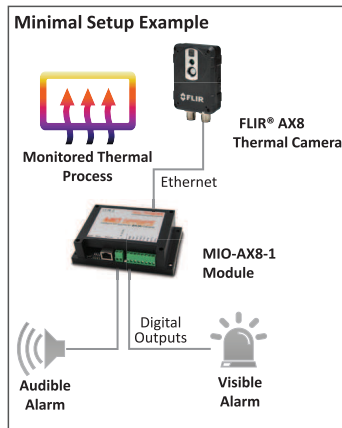
Model	MIO-AX8-1	MIO-AX8-7
Part number	T130086	T130087
<b>Product specifications</b>		
Maximum Cameras Supported	1	7
Ethernet Connection	100Base-T	100Base-T
Communication Protocol	Modbus TCP/IP	Modbus TCP/IP
4-20 mA Transmitter Channels	2 CH, Loop Powered, Isolated	8 CH, Loop Powered, Isolated
Digital Output Channels	2	8
Digital Output Current	0.5A per Channel, 1.5A All Channels	0.5A per Channel, 1.5A All Channels
Digital Output Voltage	10-30 VDC	10-30 VDC
Power Supply Voltage	24 VDC	24 VDC
Maximum Power Consumption	3 W	7 W
Dimensions	5.7 x 3.6 x 1.6 in (145 x 90 x 40 mm)	8.8 x 3.9 x 1.2 in (223 x 99 x 31 mm)
Weight	0.5 lbs (0.23 kg)	0.7 lbs (0.32 kg)
Enclosure Material	ABS	Anodized Aluminum
<b>Shipping Information</b>		
Packaging Type	Cardboard box	Cardboard box
List of Contents	MIO-AX8-1 Unit Din Rail Mountable Manual on USB drive	MIO-AX8-7 Unit Manual on USB drive Din Rail Adapter Clip
Packaging Weight	0.66 lbs (0.3 kg)	0.84 lbs (0.38 kg)
Packaging Size	7.125 x 4.4375 x 2 in (181 x 113 x 50 mm)	8.875 x 4.125 x 1.375 in (226 x 105 x 35 mm)
Country of Origin	USA	USA



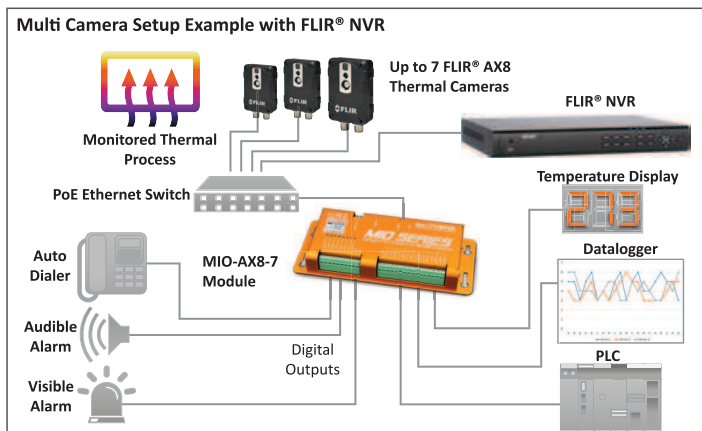
Process monitoring



Fire detection



Example 1: Basic Thermal Monitoring with alarms using the MIO-AX8-1.



Example 2: Advanced Multi-camera Thermal Monitoring with alarms, automated notification, datalogging, PLC connectivity and real-time video archiving using the MIO-AX8-7.

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