FLIR Axxx-SERIES IMAGE STREAMING

Fixed-Mount Thermal Camera

Key Features:

- Robust and reliable thermal imaging for applications where temperature accuracy matters
- Easily incorporate thermal imaging into machine vision applications using standard industry protocols
- Full featured, flexible options allow camera configurations to meet specific application requirements

Main Applications:

- Productivity and quality assurance monitoring
- Continuous monitoring of electrical and mechanical systems
- Early fire detection for fast response

SPECIFICATIONS

Detector Data	Standard Configuration	Advanced Configuration
IR resolution	320 × 240 (A400), 464 × 348 (A500), or 640 × 480 (A700)	
Visual resolution	1280 × 960	
Focal plane array/spectral range	<30 mK to <50 mK, lens dependent	
Lenses	6°, 14°, 24°, 42°, 80°, FlexView® (24°/14°) or (42°/24°) lenses	
IR camera focus	One-shot contrast, motorized, manual	
Measurement		
Object temperatures	-20°C to 120°C (-4°F to 248°F) 0°C to 650°C (32°F to 1202°F) A400/A500: 300°C to 1500°C (572°F to 2732°F) A700: 300°C to 2000°C (572°F to 3632°F)	
Accuracy	±2°C (±3.6°F) or ±2% of reading	
Video streaming, RTSP protocol		
Unicast	-	Yes
Multicast	-	Yes
Multiple image streams	-	Yes
RTSP protocol - video stream 0		
Source	-	Visual, IR, MSX®
Contrast enhancement	-	FSX®, histogram equalization (IR only)
Overlay	-	With, without
Pixel format	-	YUV411
Encoding	-	H.264/MPEG4/MJPEG

RTSP protocol - video stream 1	Standard Configuration	Advanced Configuration
Source	-	Visual, IR, MSX
Overlay	-	No
Pixel format	-	YUV411
Encoding	-	H.264/MPEG4/MJPEG
Radiometric streaming, RTSP		
Source	IR	
Pixel format	MONO 16	
Encoding	Compressed JPEG-LS; FLIR radiometric	
Video/radiometric streaming, GVSP (GigE Vision) protocol		
Unicast	Yes	
Multicast	Yes	
Multiple image streams	No	
Non-radiometric streaming, GVSP (GigE Vision) protocol		
Resolution	Visual, IR, MSX, 640 × 480 pixels	
Contrast enhancement	FSX (optional), histogram equalization (IR only)	
Overlay	With, without	
Pixel format	YUV411 or MONO 8	
Encoding	Uncompressed	

This product is subject to United States export regulations and may require US authorization prior to export, reexport, or transfer to non-US persons or parties. Diversion contrary to US law is prohibited.

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SPECIFICATIONS, CONT.

	Standard Configuration	Advanced Configuration
Radiometric streaming, GVSP (GigE Vision) protocol		
Resolution	320 × 240 (A400), 464 × 348 (A500), or 640 × 480 (A700)	
Source	IR	
Pixel format	MONO 16	
Encoding	FLIR Radiometric, temperature linear, compressed JPEG-LS	
Ethernet		
Interface	Wired; Wi-Fi*	
Connector types	M12 8-pin X-coded, female; RP-SMA, female	
Ethernet type & standard	1000 Mbps, IEEE 802.3	
Ethernet power	Power over Ethernet, PoE IEEE 802.3af class 3	
Ethernet protocols	Include EtherNet/IP, Modbus TCP, and MQTT	
Digital input/output		
Connector type	M12 Male 12-pin A-coded (shared with ext. power)	
Digital input	2× opto-isolated, Vin (low) = 0-1.5 V, Vin (high) = 3-25 V	
Digital output	3× opto-isolated, 0–48 V DC, max. 350 mA (derated to 200 mA at 60°C). Solid-state opto relay, 1× dedicated as fault output (NC)	
Power system		
Connector type	M12 Male 12-pin A-coded (shared with Digital I/O)	
Power consumption	7.5 W at 24 V DC typical; 7.8 W at 48 V DC typical; 8.1 W at 48 V PoE typical	
*Wi-Fi**		
Connector type	Female RP-SMA	

*Optional feature

The FLIR A-Series cameras are designed for configuration to your specific needs.
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