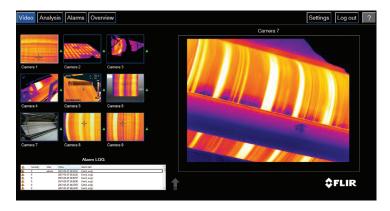


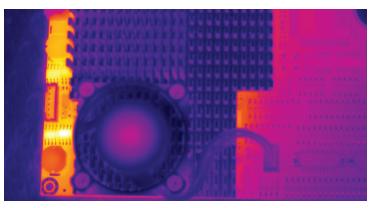
## FLIR AXXX<sup>™</sup>-SERIES

Thermal Image Streaming Camera



FLIR A400, A500, and A700 thermal cameras, when configured for Image Streaming, offer automation solution providers and industrial stakeholders the capabilities they need to accurately identify thermal issues across manufacturing processes. With multiple field-of-view choices, motorized focus control, and compressed radiometric image streaming, these automation cameras can tackle the most complex remote monitoring and temperature measurement objectives. Optimize process control and improve quality assurance through inline thermal inspections or identify abnormal conditions before a failure causes a production shutdown. The FLIR Axxx-Series can also provide early detection for faster responses to potential fires, helping minimize injuries and equipment damage. FLIR A400, A500, and A700 cameras offer unmatched power and flexibility in thermal monitoring for improved product quality, productivity, maintenance, and safety.





www.flir.com/Axxx-Series-Image-Streaming



**IMAGING CAPABILITIES** Designed with the features to deliver consistent, accurate results

WORLD-CLASS THERMAL

- Provides superior image quality with up to 640 × 480 (307,200) thermal pixel resolution‡
- Offers a high measurement accuracy of ±2°C
- Improves temperature accuracy for objects near and far with precision motorized focus
- Increases contrast in even-temperature scenes and enhances edge detail in low light using FSX<sup>®</sup> (Flexible Scene Enhancement)\* technology

## FLEXIBILITY AND EASE OF INTEGRATION

Incorporate seamlessly into monitoring systems that meet a site's unique requirements

- GigE Vision<sup>®</sup> compliant the industry standard
- GenlCam<sup>™</sup> compliant another important industry standard
- Supports both GigE and RTSP data-streaming protocols\*
- Compatible with 3rd party SDK and application software support

## FLIR INNOVATIONS FOR SMARTER RESULTS

Transform process control, QA, and condition monitoring with leading-edge technology

- Temperature linear output simplifies use of temperature data in third-party software
- Compressed radiometric streaming\* cuts bandwidth by 90%, making it possible to connect cameras and share data via Wi-Fi<sup>†</sup>
- Reduced bandwidth also allows users to add cameras without expanding infrastructure, for an overall cost savings
- Simultaneously integrates with VMS and measurement applications using multi-image streaming\*

## FLIR Axxx-SERIES

Standard Configuration	Advanced Configuration
320 × 240 (A400), 464 × 34	ı 48 (A500), or 640 × 480 (A700)
1280 × 960	
<30 mK to <50 mK, lens dependent	
6°, 14°, 24°, 42°, Dual FOV (14° + 24°) athermalized lenses	
One-shot contrast, motorized, manual	
A400/A500: -20°C to 1500°C (-4°F to 2732°F), 3 ranges A700: -20°C to 2000°C (-4°F to 3632°F), 3 ranges	
±2°C (±3.6°F) or ±2% of reading	
_	Yes
_	Yes
_	Yes
-	Visual, IR, MSX®
-	FSX®, histogram equalization (IR only)
_	With, without
-	YUV411
-	H.264/MPEG4/MJPEG
-	Visual
-	No
_	YUV411
-	H.264/MPEG4/MJPEG
-	IR
	MONO 16
_	Compressed JPEG-LS; FLIR radiometric
VSP (GigE Vision) protocol	
Yes	
Yes	
Yes, by using the FLIR Atlas desktop SDK both IR and Visual image streams can be viewed simultaneously	
	320 × 240 (A400), 464 × 3. 12E <30 mK to <50 6°, 14°, 24°, 42°, Dual FOV One-shot contrast A400/A500: -20°C to 150 A700: -20°C to 2000°C ±2°C (±3.6°F) - - - - - - - - - - - - -

Video stream 0	Standard Configuration	Advanced Configuration
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	
Radiometric streaming, GVSP		
Resolution	320 × 240 (A400), 464 × 348 (A500), or 640 × 480 (A700)	
Source	IR	
Pixel format	M0N0 16	
Encoding	FLIR radiometric; temperature linear	Compressed JPEG-LS; FLIR radiometric; temperature linear
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	

The FLIR A-Series cameras are designed for configuration to your specific needs. To learn more about the Image Streaming Configuration options, please visit: www.flir.com/axxx-series

\*Optional feature

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.

For assistance with confirming the Jurisdiction & Classification of Teledyne FLIR, LLC products, please contact exportquestions@flir.com.

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