



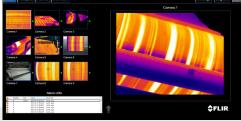
THERMAL IMAGE STREAMING CAMERA

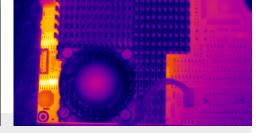
FLIR A400/A700™ SERIES

The FLIR A400/A700-Series, 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, alarming, and analytics 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 A400/A700-Series can also provide early detection for faster responses to potential fires, helping minimize injuries and equipment damage. A wide variety of customizations give the FLIR A400/ A700-Series cameras offer unmatched power and flexibility in thermal monitoring for improved product quality, productivity, maintenance, and safety.

www.flir.com/A400-A700-Image-Streaming







FLEXIBILITY AND EASE **OF INTEGRATION**

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

• GigE Vision compliant - the industry standard



- GenlCam compliant another
 - GEN<i>CAM important industry standard
- Supports both GigE and RTSP data-streaming protocols*
- Compatible with 3rd party SDK and application software support

*Advanced †Optional ‡Model-dependent

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[†]
- 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*

WORLD-CLASS THERMAL IMAGING CAPABILITIES

Designed with the features to deliver consistent, accurate results

- 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® (Flexible Scene Enhancement)* technology

SPECIFICATIONS

Image and Optical Data	Standard Config.	Advanced Config.
IR resolution	320 × 240 (A400) or 640 × 480 (A700)	
Visual resolution*	1280 × 960	
Thermal resolution	<30 mK to <50 mK, lens dependent	
Lenses	14°, 24°, and 42°	
IR Camera Focus	One-shot contrast, motorized, manual	
Measurement	'	
Object temperatures	-20°C to 2000°C (-4°F to 3632°F), 3 ranges	
Accuracy	± 2 °C (± 3.6 °F) or ± 2 % of reading	
Video streaming, RTSP p	rotocol	
Unicast	-	Yes
Multicast	-	Yes
Multiple image streams	-	Yes
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
Video stream 1		
Source	-	Visual, IR, MSX®
Overlay	-	No
Pixel format	-	YUV411
Encoding	-	H.264/MPEG4/MJPEG
Radiometric streaming, F	RSTP	
Source	_	IR
Pixel format	_	MONO 16
Encoding	_	Compressed JPEG-LS; FLIR radiometric
Video/radiometric stream	ning, GVSP (GigE Vis	ion) protocol
Unicast	Yes	
Multicast	Yes	
Multiple image streams	No	

Video stream 0	Standard Config.	Advanced Config.	
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 streamin	g, GVSP		
Resolution	320 × 240 (A400) or 640 × 480 (A700)		
Source	IR		
Pixel format	MONO 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 VDC, 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/a400-a700-series

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