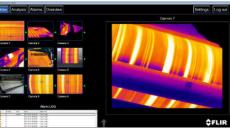


thermal image streaming camera FLIR A400/A700™ SERIES

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 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 A400/A700-Series can also provide early detection for faster responses to potential fires, helping minimize injuries and equipment damage. 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
- Supports both GigE and RTSP data-streaming protocols*

*Advanced

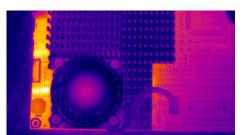
• Compatible with 3rd party SDK and application software support



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[†]
- 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 Configuration	Advanced Configuration	
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	$\pm 2^{\circ}$ C ($\pm 3.6^{\circ}$ F) or $\pm 2\%$ of reading		
Video streaming, RTSP protocol			
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, RTSP			
Source	_	IR	
Pixel format	_	M0N0 16	
Encoding	-	Compressed JPEG-LS; FLIR radiometric	
Video/radiometric streaming, GVSP (GigE Vision) protocol			
Unicast	Yes		
Multicast	Yes		
Multiple image streams	No		

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) 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 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		
W i-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

*Optional feature

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