

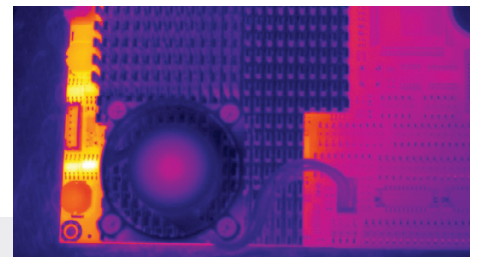
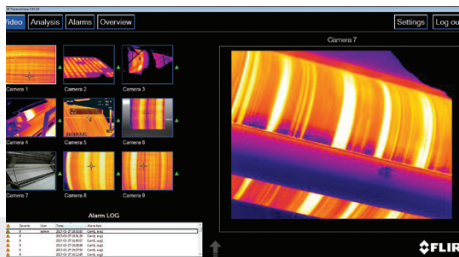
**THERMAL IMAGE
STREAMING CAMERA**

FLIR Axxx™-Series



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



FLEXIBILITY AND EASE OF INTEGRATION

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

- GigE Vision compliant – the industry standard
- GenICam compliant – another important industry standard
- Supports both GigE and RTSP data-streaming protocols*
- Compatible with 3rd party SDK and application software support



*Advanced †Optional

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

†Model-dependent

SPECIFICATIONS

| Image and Optical Data | Standard Config. | Advanced Config. |
|--|---|---|
| IR resolution | 320 × 240 (A400), 464 × 348 (A500), 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 protocol | | |
| Unicast | – | Yes |
| Multicast | – | Yes |
| Multiple image streams | – | Yes |
| Video stream 0 | | |
| Source | – | Visual, IR, MSX® |
| Contrast enhancement | – | FSX®, histogram equalization V(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, RSTP | | |
| 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 |

| 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 streaming, GVSP | | |
| 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; 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/axxx-series



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