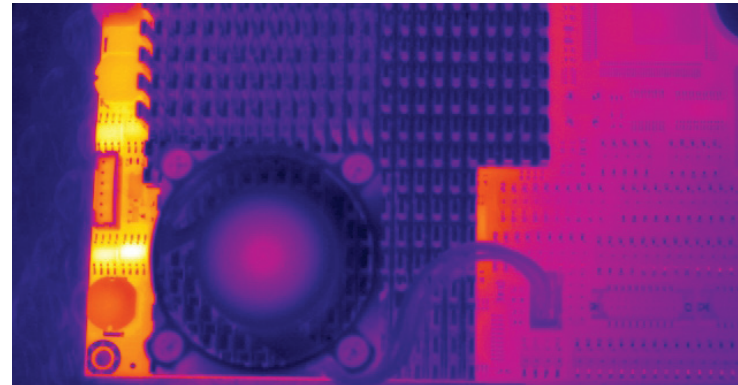
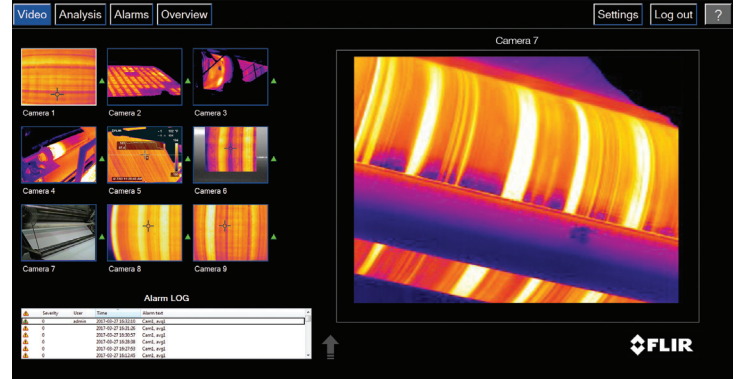


FLIR AXXX™-SERIES

Thermal Image Streaming Camera



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

GigE
VISION

GEN*i*CAM

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.

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

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

*Advanced †Optional ‡Model-dependent

For more information contact: Sales@TeledyneFLIR.com
or to find your local support number, visit: flir.com/contactsupport

www.teledyneflir.com

FLIR Axxx-SERIES

| Image and Optical Data | Standard Configuration | Advanced Configuration |
|--|---|--|
| 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 | 6°, 14°, 24°, 42°, Dual FOV (14° + 24°) athermalized lenses | |
| IR Camera Focus | One-shot contrast, motorized, manual | |
| Measurement | | |
| Object temperatures | 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 | |
| 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 (IR only) |
| Overlay | — | With, without |
| Pixel format | — | YUV411 |
| Encoding | — | H.264/MPEG4/MJPEG |
| Video stream 1 | | |
| Source | — | Visual |
| 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 | Yes, by using the FLIR Atlas desktop SDK both IR and Visual image streams can be viewed simultaneously | |

| 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 | 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 | |
| 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

For more information contact: Sales@TeledyneFLIR.com
or to find your local support number, visit: flir.com/contactsupport

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