# FLIR Axxx-SERIES IMAGE STREAMING

Fixed-Mount Thermal Camera

## Key Features:

- Robust and reliable thermal imaging for applications where temperature accuracy matters
- Easily incorporate thermal imaging into machine vision applications using standard industry protocols
- Full featured, flexible options allow camera configurations to meet specific application requirements

## Main Applications:

- Productivity and quality assurance monitoring
- Continuous monitoring of electrical and mechanical systems
- Early fire detection for fast response

www.flir.com/axxx-series-image-streaming

## SPECIFICATIONS

| Detector Data | Standard Configuration | Advanced Configuration |
|---|---|---|
| IR resolution | 320 × 240 (A400), 464 × 348 (A500), or 640 × 480 (A700) | |
| Visual resolution | 1280 × 960 | |
| Focal plane array/spectral range | <30 mK to <50 mK, lens dependent | |
| Lenses | 2x Macro, DFOV (24°/14°), 6°, 14°, 24°, 42°, and 80° | |
| IR camera focus | One-shot contrast, motorized, manual | |
| **Measurement** | | |
| Object temperatures | -20°C to 120°C (-4°F to 248°F)<br>0°C to 650°C (32°F to 1202°F)<br>A400/A500: 300°C to 1500°C (572°F to 2732°F)<br>A700: 300°C to 2000°C (572°F to 3632°F) | |
| Accuracy | ±2°C (±3.6°F) or ±2% of reading | |
| **Video streaming, RTSP protocol** | | |
| Unicast | - | Yes |
| Multicast | - | Yes |
| Multiple image streams | - | Yes |
| **RTSP protocol - 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 |

| RTSP protocol - video stream 1 | Standard Configuration | Advanced Configuration |
|---|---|---|
| Source | - | Visual, IR, MSX |
| 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 | No | |
| **Non-radiometric streaming, GVSP (GigE Vision) protocol** | | |
| 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 | |

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



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# FLIR Axxx-SERIES IMAGE STREAMING

Fixed-Mount Thermal Camera

## SPECIFICATIONS, CONT.

| | Standard Configuration | Advanced Configuration |
|---|---|---|
| **Radiometric streaming, GVSP (GigE Vision) protocol** | | |
| 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 | |
| **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 | |

*Optional feature

The FLIR A-Series cameras are designed for configuration to your specific needs. Specifications are subject to change without notice. For the most up-to-date specifications, visit: flir.com/axxx-series

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