## Key Features:

- On-camera temperature measurement and alarming tools provide immediate results
- Unrivaled connectivity and on-the-edge computing for easy integration into web applications
- Robust and reliable thermal imaging for applications where temperature accuracy matters

## Main Applications:

- Continuous thermal monitoring of critical infrastructure
- Early fire detection for fast response
- Temperature-based machine and process control

## SPECIFICATIONS

| Detector Data | Standard Configuration | Advanced Configuration |
|---|---|---|
| IR resolution | 320 × 240 (A400) | |
| Visual resolution | 1280 × 960 | |
| Focal plane array/spectral range | <30 mK to <50 mK, lens dependent | |
| Lenses | 14°, 24°, 42°, 80°, FlexView® Dual FOV (24°/14°), FlexView® Dual FOV (42°/24°) lenses | |
| IR camera focus | One-shot contrast, motorized, manual | |
| **Measurement** | | |
| Object temperatures | -20°C to 120°C (-4°F to 248°F) 0°C to 650°C (32°F to 1202°F) A400: 300°C to 1500°C (572°F to 2732°F) | |
| Accuracy | ±2°C (±3.6°F) or ±2% of reading | |
| **Measurement analysis** | | |
| Standard functions | 10 spotmeters, 10 boxes, 3 Deltas, 1 isotherm, 1 iso-coverage, 1 reference temperature | 10 spotmeters, 10 boxes & mask polygons, 3 Deltas, 2 isotherm, 2 iso-coverage, 1 reference temperature, 2 lines, 1 polyline |
| Automatic hot/cold detection | Max./min. temperature value and position shown within box | |
| Scheduled response | SFTP (image), SMTP (image and/or measurement data/result) | |
| Measurement frequency | Up to 10 Hz | |
| Measurement result read-out | Yes; common protocols include EtherNet/IP, Modbus TCP, MQTT, and REST API | |
| Dynamic Range | 16-bit | |

| Alarm | Standard Configuration | Advanced Configuration |
|---|---|---|
| Alarm function | On any selected measurement function; digital in; internal camera temperature | |
| Alarm output | Yes: common output includes e-mail, EtherNet/IP, Modbus TCP, RESTful API, and ONVIF (advanced only) | |
| **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** | | |
| Source | Visual | |
| Overlay | No | |
| Pixel format | YUV411 | |
| Encoding | H.264/MPEG4/MJPEG | |
| **Radiometric streaming** | | |
| Source | - | IR |
| Pixel format | - | MONO 16 |
| Encoding | - | Compressed JPEG-LS; FLIR radiometric |

## SPECIFICATIONS, CONT.

| Ethernet | Standard Configuration | Advanced Configuration |
|---|---|---|
| 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 | |