

XF40-Q2901 Explosion-Protected Temperature Alarm Camera

Temperature detection in hazardous areas

XF40-Q2901 Explosion-Protected Temperature Alarm Camera is suitable for onshore, offshore, marine and heavy industrial environments. The stainless steel housing is certified for hazardous areas, and prevents any inside sparks or explosions from escaping and igniting vapors, gases, dust or fibers in the surrounding air. The camera supports temperature alarm zones triggering alarms based on deviation of the temperature. It tells the temperature of a particular area. Easy visualization of hot spots with isothermal palettes to identify overheated equipment or areas. The network camera offers a high level of integration with other equipment, such as access control and fire alarms.

- > [Stainless steel \(SAE 316L\) housing](#)
- > [336x256 thermal resolution](#)
- > [Temperature alarm and isothermal palettes](#)
- > [Spot temperature reading](#)
- > [Wide temperature range](#)



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| Models | XF40-Q2901 XF40-Q2901 -60 C XF40-Q2901 -50 C UL All models are available in different versions depending on the regional requirements for hazardous equipment certification. | Casing | IP66-, IP67- rated electropolished SAE 316L stainless steel casing for maximum corrosion protection Germanium protective window |
| Certification part code | XF40-Q2901/XF40-Q2901 -60 C: 1410-TI-50 Delivered in 1410 series explosion-protected housing. XF40-Q2901 -50 C UL: OXALIS-UL1410-TI-50 Delivered in UL1410 series explosion-protected housing. | Memory | 256 MB RAM, 128 MB Flash |
| Camera | | Power | Max consumption, 24 V AC: 28 W |
| Image sensor | Uncooled Micro bolometer 336x256 pixels, Pixel size 17 µm Spectral range: 8-14 µm | Connectors | XF40-Q2901 models: Three M20 cable entry for cable conduits XF40-Q2901 UL: Three 3/4" NPT conduit entries |
| Lens | Athermalized 19 mm, F1.25 Horizontal field of view: 17° Min focus distance: 9.5 m (354.3 in) | Storage | Support for microSD/microSDHC/microSDXC card Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see www.axis.com |
| Detection range | The size of a monitored object is recommended to cover at least 10x10 pixels in 336x256. | Operating conditions | Temperatures depend on the certifications. See Certifications section: XF40-Q2901: -40 °C to 70 °C (-40 °F to 158 °F) XF40-Q2901 -60 C: -60 °C to 40 °C (-76 °F to 104 °F) XF40-Q2901 -50 C UL: -50 °C to 70 °C (-58 °F to 158 °F) Humidity 10-100% RH (condensing) |
| Sensitivity | NETD < 50 mk | Storage conditions | -40 °C to 65 °C (-40 °F to 149 °F) |
| Thermography | | Approvals | EMC EN 55022 Class A, EN 55024 Class A, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, RCM AS/NZS CISPR 22 Class A Safety EN/UL/CSA 60065 Environment IEC/EN 60529 IP66, IP67 Explosion IEC/EN/UL/CSA 60079-0, IEC/EN/UL/CSA 60079-1, UL1203 CSA C22.2 No. 25 M 1966, CSA C22.2 No. 30 M 1986 |
| Object temperature range | -40 °C to 550 °C (-40 °F to 1022 °F) | Certifications | ATEX: II 2 G Ex db IIC T4, II 2 D Ex tb IIIC T135°C Db IP66/67 IECEX: Ex d IIC T4 -60°C ≤ Ta ≤ +70°C Gb, Ex tb IIIC T135°C Db IP66/67 Imetro: Ex d IIC T4 -60°C ≤ Ta ≤ +70°C Gb, Ex tb IIIC T135°C Db IP66/67 CSA: Ex d IIC T4 -60°C ≤ Ta ≤ +60°C; Operating temperature: -40 °C to 60 °C (-40 °F to 140 °F) EAC: Ex d IIC -60°C ≤ Ta ≤ +70°C Gb, Ex tb IIIC T135°C Db, IP66/67 UL: Class I Division 1 Groups B, C, D, T4, Class II Division 1 Groups E, F, G, Class III Division 1 -50°C ≤ Ta ≤ +70°C |
| Temperature accuracy | Below 100 °C (212 °F): +/- 5 °C (+/-9 °F) accuracy Below 150 °C (302 °F): +/- 5% accuracy Above 150 °C (302 °F): +/- 20% accuracy | Dimensions | 165 x 176 x 480 mm (6 1/2 x 6 15/16 x 18 7/8 in) |
| Video | | Weight | 14 kg (31 lb) |
| Video compression | H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles Motion JPEG | Included accessories | Sunshield, installation guide, Windows decoder 1-user license, AXIS Surveillance microSDXC™ Card 64 GB |
| Resolution | Sensor is 336x256. Image can be scaled up to 720x576. | Optional accessories | Ex Power Supply ATEX Ex Washer Tank Pressurized ATEX/IECEX, Ex Power Supply UL, Ex Cable ATEX/IECEX/EAC in various lengths, wall and pole stainless steel mounts All accessories are not available for all certifications. For more accessories, see www.axis.com |
| Frame rate | Up to 8.3 fps | Video management software | AXIS Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on www.axis.com/techsup/software |
| Video streaming | 3 individual streams ^a in H.264 and Motion JPEG: simultaneous, individually configured streams in max. resolution at 8.3 fps Controllable frame rate and bandwidth VBR/CBR H.264 | Languages | English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese |
| Image settings | Sharpness, automatic gain control, exposure zones, max gain, rotation, palette, isothermal palette, compression, mirroring, text and image overlay, privacy masks | Warranty | Axis 3-year warranty, see www.axis.com/warranty |
| Network | | Export control | The product contains U.S.-origin controlled technology/component, the US Export Administration Regulations (EAR) are always applicable to the product. You should comply at all times with all applicable national and international (re-) export control regulations. |
| Security | Password protection, IP address filtering, HTTPS ^b encryption, Digest authentication, User access log, Centralized Certificate Management | | |
| Supported protocols | IPv4/v6, HTTP, HTTPS ^b , SSL/TLS ^b , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP™, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH | | |
| System integration | | | |
| Application Programming Interface | Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at www.axis.com AXIS Video Hosting System (AVHS) with One-Click Connection ONVIF [®] Profile S and ONVIF [®] Profile G, specification at www.onvif.org | | |
| Analytics | AXIS Video Motion Detection, Shock detection Support for AXIS Camera Application Platform, see www.axis.com/acap | | |
| Event triggers | Analytics, Temperature detection (6 alarm zones), Hardware temperature, Edge storage events, Time scheduled, Motion Detection | | |
| Event actions | Overlay text, video recording to edge storage, pre- and post-alarm video buffering, send SNMP trap File upload via FTP, SFTP, HTTP, HTTPS network share and email Notification via email, HTTP, HTTPS and TCP | | |
| Data streaming | Event data | | |
| Built-in installation aids | Pixel counter | | |
| General | | | |

- a. Individual palette cannot be set per video stream
b. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (www.openssl.org), and cryptographic software written by Eric Young (ey@cryptsoft.com).

Environmental responsibility:

www.axis.com/environmental-responsibility