XF40-Q2901 Explosion-Protected Temperature Alarm Camera

Class/Division- and Zone-certified temperature-monitoring camera

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

XF40-Q2901 Explosion-Protected Temperature Alarm Camera

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.
Certification part code	**XF40-Q2901/XF40-Q2901 -60 C:** 1410-TI-50 Supplied in 1410 series explosion-protected housing. **XF40-Q2901 -50 C UL:** 0XALIS-UL1410-TI-50 Supplied in UL1410 series explosion-protected housing.
Camera	
Image sensor	Uncooled Micro bolometer 336x256 pixels, Pixel size 17 µm Spectral range: 8–14 µm
Lens	Athermalized 19 mm, F1.25 Horizontal field of view: 17° Min. focus distance: 9.5 m (354.3 in)
Detection range	The size of a monitored object is recommended to cover at least 10x10 pixels in 336x256.
Sensitivity	NETD < 50 mK
Thermography	
Object temperature range	-40 °C to 550 °C (-40 °F to 1022 °F)
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
Video	
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles Motion JPEG
Resolution	Sensor is 336x256. Image can be scaled up to 720x576.
Frame rate	Up to 8.3 fps
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
Image settings	Sharpness, automatic gain control, exposure zones, max gain, rotation, palette, isothermal palette, compression, mirroring, text and image overlay, privacy masks
Network	
Security	Password protection, IP address filtering, HTTPS[b] encryption, Digest authentication, User access log, Centralized Certificate Management
Supported protocols	IPv4, IPv6 USGv6, 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, IGMPv1/v2/v3, 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 *axis.com* AXIS Guardian with One-Click Connection One-click cloud connection ONVIF® Profile S and ONVIF® Profile G, specification at *onvif.org*
Analytics	AXIS Video Motion Detection, Shock detection Support for AXIS Camera Application Platform, see *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	
Casing	IP66- and IP67- rated, electropolished SAE 316L stainless steel casing for maximum corrosion protection Germanium protective window
Memory	256 MB RAM, 128 MB Flash
Power	Max consumption, 24 V AC: 28 W
Connectors	**XF40-Q2901 models:** Three M20 cable entry for cable conduits **XF40-Q2901 UL:** Three 3/4" NPT conduit entries
Storage	Support for microSD/microSDHC/microSDXC card Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see *axis.com*
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)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
Approvals	**EMC** EN 55022 Class A, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), RCM AS/NZS CISPR 22 Class A **Safety** EN/UL/CSA 60065 **Environment** IEC/EN 60529 IP66, IP67 **Explosion** IEC/EN/SANS/ABNT NBR 60079-0, IEC/EN/SANS/ABNT NBR/GOST 60079-1, IEC/EN/SANS/ABNT NBR/GOST 60079-31, GOST 31610.0, GB3836.1, GB3836.2, CAN/CSA-C22.2 No. 60079-0, CAN/CSA-C22.2 No. 60079-1, CSA-C22.2 No. 60065-03, CAN/CSA C22.2 No. 25, CAN/CSA C22.2 No. 30-M, UL 1203 **Network** NIST SP500-267
Certifications	**ATEX:**II 2 G Ex db IIC T4 Gb -60°C ≤ Ta ≤ +70°C Gb, II 2 D Ex tb IIIC T135°C Db IP66/67, Certificate: ITS16ATEX101021X **IECEx:** Ex db IIC T4 -60°C ≤ Ta ≤ +70°C Gb, Ex tb IIIC T135°C Db IP66/67, Certificate: IECEx ITS 15.0068X **Inmetro:** IIC T4 Gb -60°C ≤ Ta ≤ +70°C Gb, IIIC T135°C Db IP66/67, Certificate: UL-BR 17.0063X **cLC CSA:** Ex d IIC T4 -60°C ≤ Ta ≤ +60°C, Certificate: 11396-1S-CSA **EAC:** Ex db IIC T4 Gb -60°C ≤ Ta ≤ +70°C, Ex tb IIIC T135°C Db IP66/67, Certificate: TCRUCGB.ГБ04.B00587 **CCOE:** Ex db IIC T4 Gb -60°C ≤ Ta ≤ +70°C, Ex tb IIIC T135°C Db IP66/67, Certificate: P400546/1 **CNEX:** Ex db IIC T4 Gb -60°C ≤ Ta ≤ +70°C, Ex tb IIIC T135°C Db IP66/67, Certificate: 17.1245X **IA:** Ex db IIC T4 Gb -60°C ≤ Ta ≤ +70°C, Ex tb IIIC T135°C Db IP66/67, Certificate: S-XPL/17.0244X **KCC:** Ex d IIC T4 -60°C ≤ Ta ≤ +70°C, Ex tD A21 T135°C IP66/67 -60°C to +65°C, Certificate: 17-GA4BO-0351X, 17-GA4BO-0352X **UL:** Class I, Division 1, Groups B, C, D, T4+ -50°C to +70°C (-58°F to +158°F), Class II, Division 1, Groups E, F, G, IP67, Class 1 Zone 1 A Ex d IIB + Hydrogen T4, Certificate: 20170721-E477542
Dimensions	165 x 176 x 480 mm (6 1/2 x 6 15/16 x 18 7/8 in)
Weight	14 kg (31 lb)
Included accessories	Sunshield, installation guide, Windows decoder 1-user license, AXIS Surveillance microSDXC™ Card 64 GB
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 Not all accessories are available for all certifications. For more accessories, see *axis.com*
Video management software	AXIS Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on *axis.com/techsup/software*
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	5-year warranty, see *axis.com/warranty*

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.

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 (eay@cryptsoft.com).*

Environmental responsibility:

axis.com/environmental-responsibility