

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](#)



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.	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 Supplied in 1410 series explosion-protected housing. XF40-Q2901 -50 C UL: OXALIS-UL1410-TI-50 Supplied 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/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
Object temperature range	-40 °C to 550 °C (-40 °F to 1022 °F)	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 Immetro: 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.В00587 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: 17.1235X 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-GA4B0-0351X, 17-GA4B0-0352X 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
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
Video			165 x 176 x 480 mm (6 1/2 x 6 15/16 x 18 7/8 in)
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles Motion JPEG		Weight
Resolution	Sensor is 336x256. Image can be scaled up to 720x576.		14 kg (31 lb)
Frame rate	Up to 8.3 fps		Included accessories
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		Sunshield, installation guide, Windows decoder 1-user license, AXIS Surveillance microSDXC™ Card 64 GB
Image settings	Sharpness, automatic gain control, exposure zones, max gain, rotation, palette, isothermal palette, compression, mirroring, text and image overlay, privacy masks		Optional accessories
Network			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 www.axis.com
Security	Password protection, IP address filtering, HTTPS ^b encryption, Digest authentication, User access log, Centralized Certificate Management		Video management software
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		AXIS Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on www.axis.com/techsup/software
System integration			Languages
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		English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Analytics	AXIS Video Motion Detection, Shock detection Support for AXIS Camera Application Platform, see www.axis.com/acap		Warranty
Event triggers	Analytics, Temperature detection (6 alarm zones), Hardware temperature, Edge storage events, Time scheduled, Motion Detection		Axis 3-year warranty, see www.axis.com/warranty
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			

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:

www.axis.com/environmental-responsibility