XP40-Q1942 Explosion-Protected PT Thermal Network Camera

Thermal camera for hazardous areas

XP40-Q1942 Explosion-Protected PT Thermal Network Camera is suitable for onshore, offshore, marine and heavy industrial environments. It features a 316L stainless steel housing certified for hazardous areas according to for example ATEX, IECEx and UL. The housing prevents any inside sparks or explosions from escaping and igniting gases or dust in the surrounding air. The thermal camera accurately detects, promptly verifies, and then acts upon events of all kinds in conditions, ranging from pitch darkness to glaring sunlight. The network camera offers a high level of integration with other equipment, such as access control and fire alarms.

> **Stainless steel (SAE 316L) housing**

> **VGA thermal resolution**

> **Reliable detection and fast verification**

> **Continuous 360° pan, ±90° tilt**

> **Wide temperature range**

XP40-Q1942 Explosion-Protected PT Thermal Network Camera

Models	XP40-Q1942 XP40-Q1942 -60 C XP40-Q1942 -50 C UL XP40-Q1942 -50 C 110 V UL All models are available in different versions depending on the regional requirements for hazardous equipment certification.
Certification part code	**XP40-Q1942/XP40-Q1942 -60 C:** 1410-10-TI-50/2420-01 Supplied in 1410 series explosion-protected housing with 2420 series pan-tilt motor. **XP40-Q1942 -50 C UL/XP40-Q1942 -50 C 110 V UL:** OXALIS-UL1410-10-TI-50/2420-01 Supplied in UL1410 series explosion-protected housing with UL2420 series pan-tilt motor.

Camera

Image sensor	Uncooled Micro bolometer 640x480, pixel size: 17 µm Spectral range: 8–14 µm
Lens	Athermalized 19 mm, F1.23 Horizontal field of view: 32°
Sensitivity	NETD < 50 mK
Pan/Tilt	Pan: 360° endless, 0.1–45°/s Tilt: ±90°, 0.1–24°/s 64 preset positions, preset accuracy +/-0.1°, Guard Tour, Control queue

Video

Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles Motion JPEG
Resolution	Sensor is 640x480. Image can be scaled up to 800x600 (SVGA).
Frame rate	Up to 8.3 fps
Video streaming	At least three H.264 and Motion JPEG streams, simultaneous and individually configured in max. resolution in full frame rate Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/CBR H.264
Image settings	Compression, mirroring of images, rotation, multiple palettes, brightness, sharpness, contrast, electronic image stabilization, automatic gain control, exposure zone, max gain, text and image overlay, privacy mask

Network

Security	Password protection, IP address filtering, HTTPS[a] encryption, Digest authentication, User access log, Centralized Certificate Management
Supported protocols	IPv4, IPv6 USGv6, HTTP, HTTPS[a], SSL/TLS[a], 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, Time scheduled, Edge storage events
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	512 MB RAM, 256 MB Flash
Power	**XP40-Q1942/XP40-Q1942 -60 C/XP40-Q1942 -50 C UL:**

	Max consumption, 24 V AC: 100 W **XP40-Q1942 -50 C 110 V UL:** Max consumption, 110 V AC: 114 W
Connectors	**XP40-Q1942 models:** One M25 cable entry for cable conduits **XP40-Q1942 UL models:** Two 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: **XP40-Q1942:** -40 °C to 70 °C (-40 °F to 158 °F) **XP40-Q1942 -60 C:** -60 °C to 40 °C (-76 °F to 104 °F) **XP40-Q1942 -50 C UL:** -50 °C to 70 °C (-58 °F to 158 °F) **XP40-Q1942 -50 C 110 V 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
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	475 x 512 x 480 mm (18 11/16 x 20 3/16 x 18 7/8 in)
Weight	50 kg (110 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	This product is subject to export control regulations. You should always consult and comply with the regulations of the appropriate local export control authorities.

a. *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