

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.	Germanium protective window
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.	Memory 512 MB RAM, 256 MB Flash
Camera		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
Image sensor	Uncooled Micro bolometer 640x480, pixel size: 17 µm Spectral range: 8–14 µm	Connectors XP40-Q1942 models: One M25 cable entry for cable conduits XP40-Q1942 UL models: Two 3/4" NPT conduit entries
Lens	Athermalized 19 mm, F1.23 Horizontal field of view: 32°	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
Sensitivity	NETD < 50 mK	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)
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	Storage conditions -40 °C to 65 °C (-40 °F to 149 °F)
Video		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
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles Motion JPEG	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 cLCSA: 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
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 ³ encryption, Digest authentication, User access log, Centralized Certificate Management	
Supported protocols	IPv4/v6, HTTP, HTTPS ³ , SSL/TLS ³ , 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, 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-, IP67- rated electropolished SAE 316L stainless steel casing for maximum corrosion protection	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 www.axis.com
		Video management software AXIS Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on www.axis.com/techsup/software

Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese	a. <i>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).</i>
Warranty	Axis 3-year warranty, see www.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.	Environmental responsibility: www.axis.com/environmental-responsibility