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**
- AXIUS Q1942
- AXIUS Q1942 -60 C
- AXIUS Q1942 -50 C
- AXIUS Q1942 -50 C 110 V UL
- AXIUS Q1942 -50 C 110 V UL
- AXIUS Q1942 -60 C 110 V UL

All models are available in different versions depending on the regional requirements for hazardous equipment certification.

**Certification part code**
- AXIUS Q1942/QX1942 -60 C: 1410-10-T1-50/2420-01
- AXIUS Q1942 -50 C: 1410-10-T1-50/2420-01

Supplied in 1410 series explosion-protected housing with 2420 series pan-tilt motor.

**Camera**
- **Image sensor**: Uncooled Micro bolometer 640x480, pixel size: 17 µm
- **Spectral range**: 8-14 µm
- **Lens**: Athermalized
- **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, test and image overlay, privacy mask

**Network**
- **Security**: Password protection, IP address filtering, HTTPS encryption, Digest authentication, User access log, Centralized Certificate Management

**Supported protocols**
- IPv4/6, HTTP, HTTPS, SSL/TLS, 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

**Memory**
- 512 MB RAM, 256 MB Flash

**Power**
- AXIUS Q1942/QX1942 -60 C (XP40-Q1942 -50 C): Max consumption, 24 V AC: 100 W
- AXIUS Q1942 -50 C: 70 V 110 V UL
- Max consumption, 110 V AC: 114 W

**Connectors**
- AXIUS Q1942 models: One M25 cable entry for cable conduits
- AXIUS Q1942 UL models: Two 3/4” NPT conduit entries

**Support**
- Storage for microSD/microSDHC/microSDXC card
- Support for recording to network-attached storage (NAS)
- For SD card and NAS recommendations see www.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: -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**
- 100% RH (condensing)

**Storage conditions**
- -40 °C to 65 °C (-40 °F to 149 °F)

**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, IEC-ES-003 Class A, RoHS 2/EN50581 IP66, IP67

**Safety**
- IEC/EN 60529 IP66, IP67

**Explosion**

**Certifications**
- **ATEX II 2 G Ex db IIC T4 Db 60°C ≤ tA ≤ +70°C Gb II 2 D Ex db IIC T3 C Db IP66/67, Certificate: IIFS16ATEX10121X**
- IECEx: Ex db IIC T4 Db -60°C ≤ tA ≤ +70°C, Ex tb IIC T3 C Db IP66/67, Certificate: IECEx TS 15.0068 BS

**Inmetro**
- IIC T4 Db -60°C ≤ tA ≤ +70°C Gb, IIC T3 C Db IP66/67, Certificate: UL-BS 17.0063X

**cEx C**
- Ex db IIC T4 Db -60°C ≤ tA ≤ +70°C, Certificate: 11396-15-BS

**EAC**
- Ex db IIC T4 Db -60°C ≤ tA ≤ +70°C, Ex tb IIC T3 C Db IP66/67, Certificate: TCRUC8.GE04.200587

**CCED**
- Ex db IIC T4 Db -60°C ≤ tA ≤ +70°C, Ex db IIC T3 C Db IP66/67, Certificate: P4005461

**CNEX**
- Ex db IIC T4 Db -60°C ≤ tA ≤ +70°C, Ex db IIC T3 C Db IP66/67, Certificate: 17.1235X

**IA**
- Ex db IIC T4 Db -60°C ≤ tA ≤ +70°C, Ex db IIC T3 C Db IP66/67, Certificate: 17-00082

**KC**
- Ex db IIC T4 Db -60°C ≤ tA ≤ +70°C, Ex db IIC T3 C Db IP66/67, Certificate: 17-GABR-0351X, 17-GABR-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 db IIB + Hydrogen 4, 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/EX 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/softwar
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<tr>
<th>Languages</th>
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<tr>
<td>Warranty</td>
<td>Axis 3-year warranty, see <a href="http://www.axis.com/warranty">www.axis.com/warranty</a></td>
</tr>
<tr>
<td>Export control</td>
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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 (eey@cryptsoft.com).

Environmental responsibility:
www.axis.com/environmental-responsibility

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