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
Delivered in 1410 series explosion-protected housing with 2420 series pan-tilt motor.
Delivered 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: ±30°, 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 main 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 (MB-III), 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

Germanium protective window

Memory
512 MB RAM, 256 MB Flash

Power
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 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 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 Class A, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, IEC/EN/CE 003 Class A, ROM ANS ZS CISPR 22 Class A

Safety
EN/UL/CSA 60065

Environment
IEC/EN 60529 IP66, IP67

Explosion
IEC/EN/UL/CSA 60079-0, IEC/EN/UL/CSA 60079-1, UL1203 CSA C22.2 No. 25 M 1986, CSA C22.2 No. 30 M 1986

Certifications
ATEX: II 2 G Ex db IIC T4, II 2 D Ex tb IIC T35°C Db IP66/67
IECEx: Ex d IIC T4 -60°C ≤ Ta ≤ +70°C Gb, Ex tb IIC T35°C Db IP66/67

Inmetro: Ex d IIC T4 -60°C ≤ Ta ≤ +70°C Gb, Ex tb IIC T35°C Db IP66/67

CSA: Ex d IIC T4 -60°C ≤ Ta ≤ +60°C; Operating temperature: -40 °C to 60 °C (-40 °F to 140 °F)

EAC: Ex d IIC T4 -60°C ≤ Ta ≤ +70°C Gb, Ex tb IIC T35°C Db IP66/67

UL: Class I Division 1 Groups B, C, D, T4,
Class II Division 1 Groups E, F, G,
Class III Division 1 -50°C ≤ Ta ≤ +70°C

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
All accessories are not 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

Languages
English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese

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.

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:
www.axis.com/environmental-responsibility

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