AXIS Q1941-E Thermal Network Camera

Outstanding detection and powerful video analytics

AXIS Q1941-E is an affordable outdoor, bullet style, thermal camera with a built-in window heater for harsh weather conditions. A resolution of 384x288 and a range of lens alternatives (7 mm, 13 mm, 19 mm, 35 mm and 60 mm) make it possible to optimize detection performance to meet most requirements. It supports Electronic Image Stabilization that keeps the video smooth during vibrations, and Axis Zipstream that lowers bandwidth and storage requirements. Thanks to its powerful processor, AXIS Q1941-E has high capacity for running video analytics via AXIS Camera Application Platform (ACAP) and can use a range of third party applications.

> **High performance for intelligent video analytics via ACAP**

> **Outstanding image contrast gives reliable detection and fast verification**

> **Electronic Image Stabilization**

> **Axis Zipstream technology**

AXIS Q1941-E Thermal Network Camera

Models	AXIS Q1941-E 7 mm/13 mm/19 mm/35 mm or 60 mm

Camera

Image sensor	Uncooled Micro bolometer 384x288, pixel size: 17 µm Spectral range: 8–14 µm
Lens	Athermalized **7 mm** Horizontal field of view: 55°, F1.18 Near focus distance: 1.3 m (4.3 ft) **13 mm** Horizontal field of view: 28°, F1.0 Near focus distance: 5.3 m (17 ft) **19 mm** Horizontal field of view: 19.4°, F1.23 Near focus distance: 9.2 m (30 ft) **35 mm** Horizontal field of view: 10.5°, F1.2 Near focus distance: 33 m (108 ft) **60 mm** Horizontal field of view: 6.2°, F1.25 Near focus distance: 91 m (300 ft)
Sensitivity	NETD < 70 mK

Video

Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG
Resolution	Sensor is 384x288. Image can be scaled up to 768x576.
Frame rate	Up to 8.3 fps and 30 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/MBR H.264
Image settings	Compression, brightness, sharpness, contrast, exposure zone, text and image overlay, privacy mask, mirroring of images, electronic image stabilization, multiple palettes Rotation: 0°, 90°, 180°, 270° including Corridor Format

Audio

Audio streaming	Two-way, full duplex
Audio compression	24bit LPCM, AAC-LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate
Audio input/output	External microphone input or line input, Line output

Network

Security	Password protection, IP address filtering, HTTPS[a] encryption, IEEE 802.1X[a] network access control, Digest authentication, User access log, Centralized Certificate Management
Supported protocols	IPv4/v6, 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, SFTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, LLDP

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	**Included** AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, audio detection **Supported** AXIS Perimeter Defender Support for AXIS Camera Application Platform enabling installation of third-party applications, see www.axis.com/acap
Event triggers	Analytics, temperature, external input, time scheduled, edge storage events
Event actions	Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS network share and email

	Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP and SNMP trap Overlay text, play audio clip
Data streaming	Event data
Built-in installation aids	Pixel counter

General

Casing	IP66-, IP67- and NEMA 4X-rated Metal casing (aluminum) with integrated dehumidifying membrane and a germanium window Color: White NCS S 1002-B
Sustainability	PVC free
Memory	512 MB RAM, 256 MB Flash
Power	Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3 Typical 4.8 W, max 11.8 W 8–28 V DC, typical 6.6 W, max 13 W 20–24 V AC (50/60 Hz), typical 11 VA, max 19 VA Power supply not included.
Connectors	RJ45 10BASE-T/100BASE-TX PoE I/O connector for DC or AC input, two configurable inputs/outputs and mic in/line in, line out. (AXIS Multicable A I/O Audio not included), AC/DC input
Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see www.axis.com
Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) Humidity 10–100% RH (condensing) De-icing capability, compliant to MIL-STD-810F Method 521.3
Storage conditions	-40 °C to 70 °C (-40 °F to 158 °F)
Approvals	**EMC** EN 55022 Class A, EN 50121-4, IEC 62236-4, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR22 Class A KCC KN22 Class A, KN24 **Safety** IEC/EN/UL 60950-1, IEC/EN/UL 60950-22 **Environment** EN 50581, NEMA 250 Type 4X, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6 Class 4M4, IEC 60068-2-27, IEC 60068-2-52, IEC 60721-3-4 Class 4K3, MIL-STD-810F Method 521.3 IEC 60529 IP66/IP67
Dimensions	344 x 146 mm (13 9/16 x 5 3/4 in)
Weight	7/13/19/35 mm: 2000 g (4.4 lb) 60 mm: 2200 g (4.9 lb)
Included accessories	Resistorx® L-key, aall and ceiling mount bracket terminal block connector Installation Guide, Windows decoder 1-user license
Optional accessories	AXIS T98A17-VE Surveillance Cabinet, AXIS T94G01P, AXIS T91A47 Pole Mount, AXIS Multicable A I/O Audio, Axis PoE Midspans, AXIS T8129 PoE Extender, AXIS T8640 PoE+ over Coax Adapter Kit, AXIS T8604 Media Converter Switch AXIS T8415 Wireless Installation Tool 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/vms
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, 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