DATASHEET

AXIS Q1921/-E Thermal Network Cameras

High quality detection and wide range coverage.

- > Thermal imaging for IP-Surveillance
- > Lens alternatives for different applications
- > High-quality detection
- > Intelligent video capabilities
- > Power over Ethernet

AXIS Q1921/-E Thermal Network Cameras are a perfect complement to any network video system that needs to secure an area 24 hours a day, seven days a week. The cameras use thermal imaging, which allows users to detect people, objects and incidents in complete darkness and difficult conditions such as smoke, haze, dust and light fog.

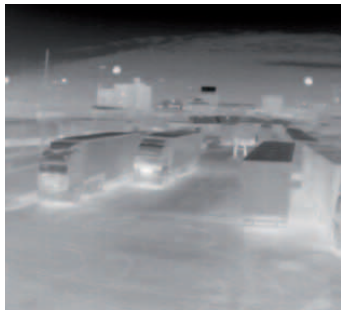
AXIS Q1921 is intended for indoor environments, while AXIS Q1921-E is an out-of-the-box, outdoor-ready model with a built-in window heater that is designed to withstand harsh weather conditions.

A resolution of 384x288 and a range of lenses make it possible to optimize detection performance to meet most application requirements. Advanced software processing and a frame rate of up to 30 fps will further improve the thermal image quality.

Since thermal cameras are immune to problems with light conditions and normal shadows, they can achieve higher accuracy than conventional cameras in most intelligent video applications.

AXIS Q1921/-E cameras offer motion detection, audio detection, and detection of tampering attempts. The cameras also provide capacity for third-party analytics modules, including support for AXIS Camera Application Platform. AXIS Q1921/-E cameras support ONVIF for interoperability between network video products.

Installation is made easy and cost effective with Power over Ethernet (IEEE 802.3af). AXIS Q1921/-E cameras support H.264 video compression, which reduces bandwidth usage and storage needs. The cameras provide multiple, individually configurable video streams in H.264 and Motion JPEG.



41980/EN/R2/1105

Technical specifications – AXIS Q1921/-E Thermal Network Cameras

Camera

Models	Indoor: **Q1921,** 10 mm and 19 mm Outdoor: **Q1921-E,** 10 mm, 19 mm, 35 mm and 60 mm
Image sensor	Uncooled Micro bolometer 384x288 pixels
Detection range	Lens (TA lens) / F / Horizontal angle of view / Human (1.8x0.5 m) / Vehicle (2.3x2.3 m) 10 mm 1.2 55° 200 m/220 yd. 460 m/505 yd. 19 mm 1.0 29° 380 m/415 yd. 870 m/950 yd. 35 mm 1.2 15° 700 m/765 yd. 1610 m/1760 yd. 60 mm 1.2 9° 1200 m/1312 yd. 2760 m/3020 yd. Calculated with Johnson's criteria. The detection range varies in different weather conditions.
Sensitivity	NETD < 100 mK

Video

Video compression	H.264 (MPEG-4 Part 10/AVC) Motion JPEG
Resolutions	Sensor is 384x288. Image can be scaled up to 768x576 and to standard VGA resolutions
Standard frame rate	Up to 30 fps within EU, Norway, Switzerland, Canada, USA, Japan, Australia, New Zealand Up to 8.3 fps in other countries* **Frame rate above 9 fps may be subject to export control regulations*
Video streaming	At least 1 stream in H.264 and Motion JPEG: simultaneous, individually configured streams in max. resolution at 30 fps Controllable frame rate and bandwidth. VBR/CBR H.264
Image settings	Compression, brightness, exposure control, rotation, mirroring of images, text and image overlay, privacy mask, multiple palettes

Audio

Audio streaming	Two-way, half duplex
Audio compression	AAC LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz Configurable bit rate
Audio input/ output	**AXIS Q1921**: Built-in microphone, external microphone or line input, line output **AXIS Q1921-E**: External microphone or line input, line output

Network

Security	Password protection, IP address filtering, HTTPS* encryption, IEEE 802.1X* network access control, digest authentication, user access log
Supported protocols	IPv4/v6, HTTP, HTTPS*, QoS Layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS. Wide range of PT heads supported (drivers available for download at www.axis.com).

** This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (www.openssl.org)*

More information is available at www.axis.com

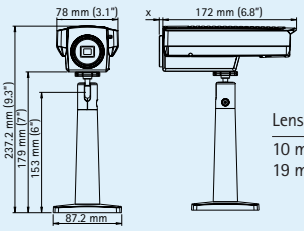
System integration

Application Programming Interface	Open API for software integration, including the ONVIF specification available at www.onvif.org, as well as VAPIX® and AXIS Camera Application Platform from Axis Communications, specifications available at www.axis.com Support for AXIS Video Hosting System (AVHS) with One-Click Camera connection
Intelligent video	Video motion detection, active tampering alarm, audio detection. Support for AXIS Camera Application Platform enables installation of additional applications
Alarm triggers	Intelligent video and external input
Alarm events	File upload via FTP, HTTP and email; notification via email, HTTP and TCP; external output activation
Video buffer	32 MB pre- and post alarm

General

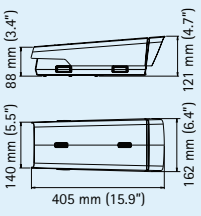
Casing	**AXIS Q1921**: Zinc chassis **AXIS Q1921-E**: IP66-rated aluminum casing and a germanium window
Processor and memory	ARTPEC-3, 128 MB RAM, 128 MB Flash
Power	Power over Ethernet IEEE 802.3af Class 3 8-20 V DC/20-24 V AC **AXIS Q1921:** max 6 W, max 10 VA **AXIS Q1921-E:** max 10 W, max 16 VA Power supply not included
Connectors	RJ-45 10BASE-T/100BASE-TX PoE, terminal block for power, terminal block for two configurable inputs/outputs 3.5 mm mic/line in, 3.5 mm line out RS-422/RS-485 Terminal block for **AXIS Q1921/-E** heater
Local storage	SD/SDHC memory card slot (card is not included)
Operating conditions	**AXIS Q1921/-E:** -40 °C to 60 °C (-40 °F to 140 °F) Humidity 20-80% RH (non-condensing)
Approvals	EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 55024, EN50121-4, EN 61000-6-1, EN 61000-6-2, EN 60950-1, KC Class B, FCC Part 15 Subpart B Class B, VCCI Class B ITE IEC TR 60721-4-3 3M4/-4-4 4M4 (shock/vibration) IEC 60529 IP66
Weight	**AXIS Q1921**: 950 g (2.10 lb.) - 970 g (2.14 lb.) **AXIS Q1921-E**: 3475 g (7.66 lb.) - 3650 g (8.05 lb.)
Included accessories	Connector kit, Installation Guide, CD with User's Manual, recording software, installation and management tools, Windows decoder 1-user license **AXIS Q1921-E**: wall mount bracket, 5 m (16 ft.) Ethernet cable
Optional accessories	Wall bracket accessories Pan/tilt motor Lenses: 10 mm, 19 mm, 35 mm and 60 mm AXIS Camera Station and video management software from Axis' Application Development Partners. For more information, see www.axis.com/products/video/software/

Dimensions: AXIS Q1921 Network Camera

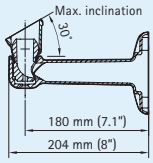


Lens (focal length) x (mm/in.)	
10 mm	18/0.7
19 mm	14/0.5

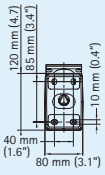
Dimensions: AXIS Q1921-E Network Camera including wall mount bracket with internal cable channel



With sunshield



Wall mount arm



Back side of wall mount bracket