

AXIS Q1972-E Thermal Camera

High-resolution thermal imaging

AXIS Q1972-E delivers a high-resolution thermal video stream for reliable detection 24/7. Ideal for perimeter security, it includes AXIS Motion Guard, AXIS Fence Guard, and AXIS Loitering Guard for proactive surveillance. With a powerful analytics platform, it's easy to add third-party analytics. Built-in cybersecurity features prevent unauthorized access and safeguard your system. For instance, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis products on your network. AXIS Q1972-E also includes a Trusted Platform Module (TPM) that is FIPS 140-2 level 2 certified. Furthermore, this halogen-free, compact camera is robust and suitable even for harsh conditions.

- > Reliable detection 24/7
- > Built-in cybersecurity features
- > Compact, robust, halogen-free design
- > Support for AI-based analytics
- > Electronic image stabilization (EIS)







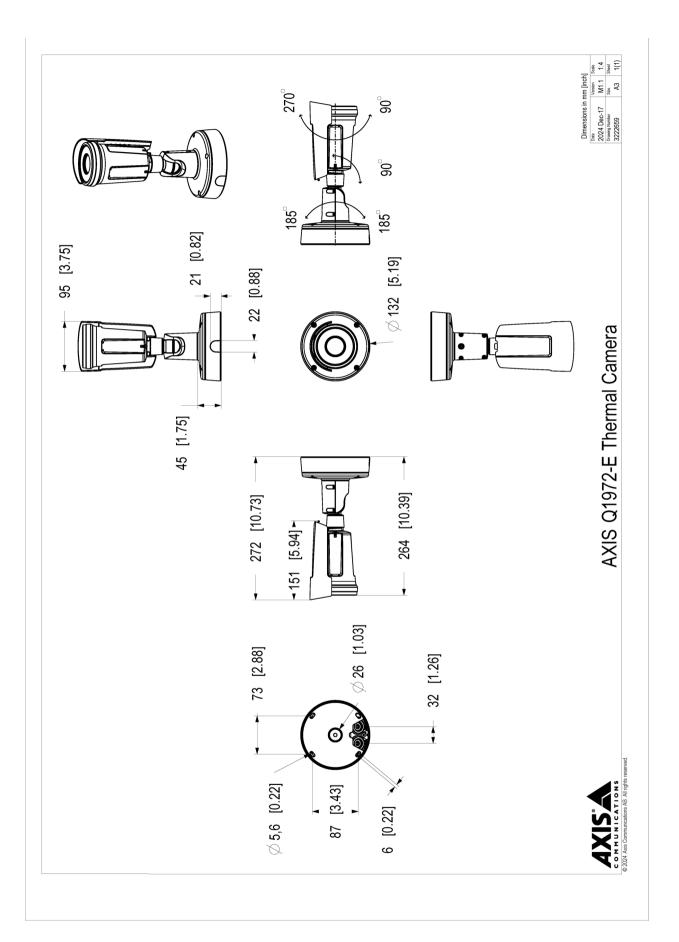
AXIS Q1972-E Thermal Camera

IS 01972-E 10 mm IS 01972-E 19 mm IS 01972-E 19 mm IS 01972-E 25 mm IS 01972-E 35 mm IS 01972-E 36 mm IS 01	Video management systems Onscreen controls Edge-to-edge Event conditions	One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specifications at onvif.org Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at axis.com/vms. Electronic image stabilization Video streaming indicator Privacy masks Media clip Heater Speaker pairing Audio: audio detection, audio clip playing, audio clip currently playing Device status: above/below/within operating temperature, IP address removed, new IP address, network lost, system ready, ring power overcurrent protection, live stream active, casing open, fan failure, shock detected Digital audio input status Edge storage: recording ongoing, storage disruption, storage health issues detected I/O: digital input, manual trigger, virtual input MOTT: stateless Scheduled and recurring: schedule Video: average bitrate degradation, tampering I/O: toggle I/O once, toggle I/O while the rule is active	
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265 (MPEG-H Part 2/HEVC) Main Profile			
265 (MPEG-H Part 2/HEVC) Main Profile		MQTT: publish Notification: HTTP, HTTPS, TCP and email	
		Overlay text	
		Pre- and post-alarm video or image buffering for recording or upload	
nsor is 640x480. Image can be scaled up to 800x600 (SVGA).		Recordings: SD card and network share	
to 8.3 fps and 30 fps		SNMP traps: send, send while the rule is active	
to 20 unique and configurable video streams ^a		Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email	
xis Zipstream technology in H.264 and H.265 ontrollable frame rate and bandwidth	Built-in installation aids	Pixel counter	
R/ABR/MBR H.264/H.265 deo streaming indicator	Analytics		
ntrast, brightness, sharpness, exposure zones, compression,	Applications	Included	
tation: 0°, 90°, 180°, 270° including corridor format, mirroring, namic text and image overlay,polygon privacy mask, electronic age stabilization, thermal palettes		AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, active tampering ala audio detection	
is Zipstream		Supported AXIS Perimeter Defender	
		Support for AXIS Camera Application Platform enabling	
tomatic gain control eaker pairing	Approvals	installation of third-party applications, see axis.com/acap	
	Product markings	CSA, UL/cUL, CE, KC	
nfigurable duplex: 	Supply chain	TAA compliant	
	EMC	CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A,	
out for external unbalanced microphone, optional 5 V		EN 50121-4, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2	
crophone power		Canada: ICES(A)/NMB(A)	
balanced line input		Japan: VCCI Class A	
tput via speaker pairing		Korea: KS C 9835, KS C 9832 Class A USA: FCC Part 15 Subpart B Class A	
		Railway: IEC 62236-4	
PCM 8 kHz, Opus 8/16/48 kHz nfigurable bitrate	Safety	CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3, IS 13252	
	Environment	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6,	
v4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS ^c , HTTP/2, S ^c , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS onjour), UPnP [®] , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, P, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC	IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10 ^d , ISO 21207 MB, MIL-STD-810H (Method 501.7, 502.7, 505.7, 506.6, 507. 509.7, 510.7, 514.8, 516.8, 521.4), NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9)		
64/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)	Network	NIST SP500-267	
n			
Redenta a a a a a a a a a a a a a a a a a a	/ABR/MBR H.264/H.265 o streaming indicator trast, brightness, sharpness, exposure zones, compression, tion: 0°, 90°, 180°, 270° including corridor format, mirroring, mic text and image overlay, polygon privacy mask, electronic type stabilization, thermal palettes Zipstream Dimatic gain control taker pairing terrum visualizer ^b figurable duplex: -way (half duplex, full duplex) Divand graphic equalizer t for external unbalanced microphone, optional 5 V Tophone power tal input, optional 12 V ring power alanced line input Dut via speaker pairing t LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 CM 8 kHz, Opus 8/16/48 kHz figurable bitrate I PV6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS°, HTTP/2, COS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS cipour), UPnP°, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, Pv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC	Approvals Product markings Supply chain EMC Trast, brightness, sharpness, exposure zones, compression, tion: 0°, 90°, 180°, 270° including corridor format, mirroring, mic text and image overlay, polygon privacy mask, electronic ge stabilization, thermal palettes Zipstream Approvals Product markings Supply chain EMC Approvals Product markings Supply chain EMC Supply chain EMC Safety Figurable duplex: -way (half duplex, full duplex) and graphic equalizer t for external unbalanced microphone, optional 5 V ophone power tal input, optional 12 V ring power alanced line input but via speaker pairing t LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 CM 8 kHz, Opus 8/16/48 kHz figurable bitrate Environment IPV6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPSC, HTTP/2, I, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPSC, HTTP/2, I, OoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS Ijouri, UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, Pv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC	

Cybersecurity	ETSI EN 303 645
Cybersecurity	
Edge security	Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection, AE5-XTS-Plain64 256bit SD card encryption Hardware: Axis Edge Vault cybersecurity platform TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), secure element (CC EAL 6+), system-on-chip security (TEE), Axis device ID, secure keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^C , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ^C , TLS v1.2/v1.3 ^C , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy Axis Security Development Model AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecurity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity
General	
Casing	IP66/IP67-, NEMA 4X- and IK10-rated ^d Aluminum and polycarbonate (PC), germanium window Color: white NCS S 1002-B For repainting instructions, go to the product's support page. For information about the impact on warranty, go to axis.com/warranty-implication-when-repainting.
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 5.0 W, max 12.95 W 12–28 V DC, typical 4.8 W, max 12.95 W
Connectors	Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE Audio: 3.5 mm mic/line in Power: DC input, terminal block I/O: Terminal block for 1 supervised alarm input and 1 output (12 V DC output, max. load 50 mA)
Storage	Support for microSD/microSDHC/microSDXC card Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Humidity 10–100% RH (condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)

Dimensions	For the overall product dimensions, see the dimension drawing in this datasheet.
	Effective Projected Area (EPA): 0.022 m ² (0.24 ft ²)
Weight	1.4 kg (3.1 lb)
Box content	Camera, installation guide, drill template, TORX® L-keys, RESISTORX® L-key, terminal block connector, connector guard, cable gaskets, owner authentication key
Optional accessories	AXIS T94F01M J-Box/Gang Box Plate, AXIS T91A47 Pole Mount, AXIS T94P01B Corner Bracket, AXIS T94F01P Conduit Back Box, AXIS Weather Shield K, Axis PoE Midspans AXIS T8415 Wireless Installation Tool AXIS Surveillance Cards For more accessories, go to axis.com/products/axis-q1972-e#accessories
System tools	AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator Available at axis.com
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see axis.com/warranty
Export control	This product is subject to export control regulations, and you should always comply with all applicable national and international export or re-export control regulations.
Part numbers	Available at axis.com/products/axis-q1972-e#part-numbers
Sustainability	
Substance control	PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709 RoHS in accordance with EU RoHS Directive 2011/65/EU/ and EN 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu
Materials	Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to axis.com/about-axis/sustainability
Environmental responsibility	axis.com/environmental-responsibility Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org
a. We recommend o	n maximum of 3 unique video streams per camera or channel, for

<sup>a. We recommend a maximum of 3 unique video streams per camera or channel, for optimized user experience, network bandwidth, and storage utilization. A unique video stream can be served to many video clients in the network using multicast or unicast transport method via built-in stream reuse functionality.
b. Feature available with ACAP
c. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).
d. Excluding front window</sup>



www.axis.com T10201993/EN/M4.2/2501

Highlighted capabilities

Axis Edge Vault

Axis Edge Vault is the hardware-based cybersecurity platform that safeguards the Axis device. It forms the foundation that all secure operations depend on and offer features to protect the device's identity, safeguard its integrity and protect sensitive information from unauthorized access. For instance, secure boot ensures that a device can boot only with signed OS, which prevents physical supply chain tampering. With signed OS, the device is also able to validate new device software before accepting to install it. And the secure keystore is the critical building-block for protecting cryptographic information used for secure communication (IEEE 802.1X, HTTPS, Axis device ID, access control keys etc.) against malicious extraction in the event of a security breach. The secure keystore and secure connections are provided through a Common Criteria or FIPS 140 certified hardware-based cryptographic computing module.

Furthermore, signed video ensures that video evidence can be verified as untampered. Each camera uses its unique video signing key, which is securely stored in the secure keystore, to add a signature into the video stream allowing video to be traced back to the Axis camera from where it originated.

To read more about Axis Edge Vault, go to axis.com/solutions/edge-vault.

Electronic image stabilization

Electronic image stabilization (EIS) provides smooth video in situations where a camera is subject to vibrations. Built-in gyroscopic sensors continuously detect the camera's movements and vibrations, and they automatically adjust the frame to ensure you always capture the details you need. Electronic image stabilization relies on different algorithms for modeling camera motion, which are used to correct the images.

Thermal palettes

A mode that allows the user to select a color range to show relative temperature differences in a scene. The user can choose between black-and-white ranges, color ranges, or a mix between the two. The same input (measured thermal radiation) can result in different visual appearance depending on how each pixel value is mapped to a color range.

Zipstream

The Axis Zipstream technology preserves all the important forensic in the video stream while lowering bandwidth and storage requirements by an average of 50%. Zipstream also includes three intelligent algorithms, which ensure that relevant forensic information is identified, recorded, and sent in full resolution and frame rate.

For more information, see axis.com/glossary

