

## **AXIS Q1951-E Thermal Camera**

## Optimal image contrast for video analytics

AXIS Q1951-E delivers a high-quality 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 Q1951-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 Q1951-E Thermal Camera

Models	AXIS Q1951-E 7 mm/13 mm/19 mm/35 mm	Event actions	Record video: SD card and network share
Camera			Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email
Image sensor	Uncooled microbolometer 384x288 pixels, pixel size: 17 µm. Spectral range: 8-14 µm		Pre- and post-alarm video or image buffering for recording or upload
Lens	Athermalized 7 mm		Notification: email, HTTP, HTTPS, TCP and SNMP trap Overlay text, play audio clip, I/O, MQTT
	Horizontal field of view: 55°, F1.18	Data streaming	Event data
	Near focus distance: 1.3 m (4.3 ft) 13 mm	Built-in installation aids	Pixel counter
	Horizontal field of view: 28°, F1.0 Near focus distance: 4 m (13 ft)	Analytics	
	19 mm	Applications	Included
	Horizontal field of view: 19.4°, F1.23 Near focus distance: 8.5 m (28 ft) 35 mm Horizontal field of view: 10.5°, F1.14	Applications	AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, active tampering alarm, audio detection
	Near focus distance: 33 m (108 ft)		Supported AXIS Perimeter Defender with Al-based functionality
Sensitivity	NETD 40 mK @25C, F1.0		Support for AXIS Camera Application Platform enabling
System on chip	o (SoC)		installation of third-party applications, see axis.com/acap
Model	ARTPEC-7	General	IDOO/IDOO NEMA OY LIKAO A IN
Memory Video	1024 MB RAM, 512 MB Flash	Casing	IP66/IP67-, NEMA 4X-, and IK10-rated <sup>b</sup> casing Polycarbonate blend and aluminum Color: white NCS S 1002-B
Video	H.264 (MPEG-4 Part 10/AVC) Baseline, Main, and High Profiles	Sustainability	PVC free, BFR/CFR free
compression	H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3
Resolution	Sensor is 384x288. Image can be scaled up to 768x576.		Typical 4.96 W, max 12.95 W
Frame rate	Up to 8.3 fps and 30 fps		12–28 V DC, typical 4.92 W, max 12.95 W
Video streaming	Multiple, individually configurable streams in H.264, H.265, and	Connectors	Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T 3.5 mm mic/line in
video streaming	Motion JPEG Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth		Terminal block for 1 supervised alarm input and 1 output (12 V DC output, max. load 25 mA) DC input, terminal block
Image settings	VBR/ABR/MBR H.264/H.265 Video streaming indicator  Contrast, brightness, sharpness, exposure zones, compression,	Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS)
image sectings	rotation: auto, 0°, 90°, 180°, 270° including Corridor Format, mirroring, dynamic text and image overlay, polygon privacy mask,	Operating	For SD card and NAS recommendations see axis.com -40 °C to 60 °C (-40 °F to 140 °F)
N	electronic image stabilization	conditions	Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C
Audio Audio streaming	One-way, two-way audio via edge-to-edge technology		(165 °F) Humidity 10–100% RH (condensing)
Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726		De-icing capability, compliant to MIL-STD-810H Method 521.4
Addio checoling	ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
Audio	External microphone input or line input, simplex, two-way audio	Approvals	EMC
input/output	via edge-to-edge technology, ring power, automatic gain control		CISPR 24, CISPR 35, EN 50121-4, EN 55024, EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2,
Network Security	Password protection, IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1x (EAP-TLS) <sup>a</sup> network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware, secure boot, protection of cryptographic keys with FIPS 140-2 certified TPM 2.0 module, Axis Edge Vault with Axis device ID		FCC Part 15 Subpart B Class A, ICES-3(A)/MMB-3(A), IEC 62236-4, KC KN32 Class A, KC KN35, RCM AS/NZS CISPR32 Class A, VCCI Class A Safety IEC/EN/UL 60950-22, IEC/EN/UL 62368-1 Environment IEC 60068-2-1, IEC/EN 60068-2-14, IEC 60068-2-2, IEC 60068-2-27, IEC 60068-2-6, IEC/EN 60068-2-78, IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10 <sup>b</sup> , ISO 21207 Method B, MIL-STD-810H (Method 501.7, 502.7, 505.7, 506.6, 507.6, 509.7, 510.7, 514.8, 516.8, 521.4), NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9) Network NIST SP500-267
Supported protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS <sup>a</sup> , HTTP/2, SSL/TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP <sup>®</sup> , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, DHCPv4/v6, SOCKS, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)		
System integra		Dimensions	Ø132 x 272 mm (Ø5.2 x 10.7 in)
Application Programming	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com	Weight	1400 g (3.1 lb)
Interface	One-click cloud connection ONVIF® Profile G, ONVIF® Profile S, and ONVIF® Profile T, specification at onvif.org	Included accessories	Installation guide, Windows® decoder 1-user license, Resistorx® L-key, wall and ceiling mount bracket, terminal block connectors, connector guard
Onscreen controls	Heater, electronic image stabilization	Optional accessories	AXIS T94F01M J-Box/Gang Box Plate, AXIS T91A47 Pole Mount, AXIS T94P01B Corner Bracket, AXIS T94F01P Conduit Back Box,
Event conditions	Analytics, operating temperature, supervised external input, edge storage events, digital audio, virtual inputs through API		AXIS Weather Shield K, Axis PoE Midspans For more accessories, see axis.com

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Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at axis.com/vms		
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese		
Warranty	5-year warranty, see axis.com/warranty		
Export control	The 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. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).
 b. Excluding front window

Environmental responsibility:

axis.com/environmental-responsibility

