

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 simplines authorization of Axis products on your network. AXIS Q1951-E also includes a Trusted Platform Module (TPM) that is FIPS 140-2 level 2 certined. 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 Al-based analytics
- > Electronic image stabilization (EIS)





AXIS Q1951-E Thermal Camera

Models	AXIS Q1951-E 7 mm/13 mm/19 mm/35 mm		Pre- and post-alarm video or image buffering for recording or upload
Camera			Noti cation: email, HTTP, HTTPS, TCP and SNMP trap
	Uncooled microbolometer 384x288 pixels, pixel size: 17 µm. Spectral range: 8-14 µm	Data streaming	Overlay text, play audio clip, I/O, MQTT Event data
Lens	Athermalized 7 mm	Built-in installation aids	Pixel counter
	Horizontal eld of view: 55°, F1.18 Near focus distance: 1.3 m (4.3 ft)		
	13 mm	Analytics	Included
	Horizontal eld of view: 28°, F1.0 Near focus distance: 4 m (13 ft) 19 mm Horizontal eld of view: 19.4°, F1.23 Near focus distance: 8.5 m (28 ft) 35 mm Horizontal eld of view: 10.5°, F1.14 Near focus distance: 33 m (108 ft)	Applications	Included AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, active tampering alarm, audio detection Supported AXIS Perimeter Defender with AI-based functionality Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
	NETD 40 mK @25C, F1.0	Cybersecurity	
System on chip		Edge security	Software: Signed rmware, brute force delay protection, digest
	ARTPEC-7		authentication, password protection, AES-XTS-Plain64 256bit SD card encryption
	1024 MB RAM, 512 MB Flash		Hardware: Secure boot, Axis Edge Vault with Axis device ID,
Video	1024 IVID IV IVII, 512 IVID FIGST		signed video, secure keystore (CC EAL4+, FIPS 140-2 level 2
	H.264 (MPEG-4 Part 10/AVC) Baseline, Main, and High Pro les		certi ed hardware protection of cryptographic operations and keys)
	H.265 (MPEG-H Part 2/HEVC) Main Pro le	Notwork socurity	IEEE 802.1X (EAP-TLS) ^a , IEEE 802.1AR, HTTPS/HSTS ^a , TLS
	Motion JPEG	Network security	v1.2/v1.3 ^a , Network Time Security (NTS), X.509 Certi cate PKI,
Resolution	Sensor is 384x288. Image can be scaled up to 768x576.		IP address Itering
Frame rate	Up to 8.3 fps and 30 fps	Documentation	AXIS OS Hardening Guide
Video streaming	Multiple, individually con gurable streams in H.264, H.265, and		Axis Vulnerability Management Policy Axis Security Development Model
	Motion JPEG Avis 7 instrum technology in 11.244 and 11.245		AXIS OS Software Bill of Material (SBOM)
	Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth		To download documents, go to axis.com/support/cybersecu-
	VBR/ABR/MBR H.264/H.265		rity/resources To read more about Axis cybersecurity support, go to
	Video streaming indicator		axis.com/cybersecurity
	Contrast, brightness, sharpness, exposure zones, compression,	General	
	rotation: auto, 0°, 90°, 180°, 270° including Corridor Format, mirroring, dynamic text and image overlay, polygon privacy mask,	Casing	IP66/IP67-, NEMA 4X-, and IK10-rated ^b casing
	electronic image stabilization		Polycarbonate blend and aluminum
Audio		C	Color: white NCS S 1002-B
Audio streaming	Audio in, simplex, two-way audio via edge-to-edge technology	Sustainability	PVC free, BFR/CFR free
_	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Con gurable bit rate	Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 4.96 W, max 12.95 W 12–28 V DC, typical 4.92 W, max 12.95 W
Audio	External microphone input or line input, digital audio input,	Connectors	Shielded RJ45_10BASE-T/100BASE-TX/1000BASE-T
input/output	network speaker pairing		3.5 mm mic/line in Terminal block for 1 supervised alarm input and 1 output (12 V
Network			DC output, max. load 25 mA)
Security	IP address Itering, HTTPS ^a encryption, IEEE 802.1x (EAP-TLS) ^a		DC input, terminal block
	network access control, user access log, centralized certicate management, signed video, Axis Edge Vault, Axis device ID,	Storage	Support for microSD/microSDHC/microSDXC card
	secure keystore (CC EAL4 certi ed), TPM (FIPS 140-2 certi ed)		Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS)
Network	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPSa, HTTP/2, TLSa,		For SD card and NAS recommendations see axis.com
	QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP®,	Operating	-40 °C to 60 °C (-40 °F to 140 °F)
	SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, DHCPv4/v6,	conditions	Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C
	SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424,		(165 °F) Humidity 10–100% RH (condensing)
	UDP/TCP/TLS), Link-Local address (ZeroConf)		De-icing capability, compliant to MIL-STD-810H Method 521.4
System integrat	tion	Storage	-40 °C to 65 °C (-40 °F to 149 °F)
	Open API for software integration, including VAPIX® and	conditions	Humidity 5-95% RH (non-condensing)
	AXIS Camera Application Platform; speci cations at <i>axis.com</i> One-click cloud connection	Approvals	EMC
	ONVIF® Pro le G, ONVIF® Pro le M, ONVIF® Pro le S, and		CISPR 24, CISPR 35, EN 50121-4, EN 55024, EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2,
	ONVIF® Pro le T, speci cation at <i>onvif.org</i>		FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), IEC 62236-4
	Heater, electronic image stabilization		KC KN32 Class A, KC KN35, RCM AS/NZS CISPR32 Class A,
controls	Analytica analyting temperature are as a later to the second seco		VCCI Class A Safety
	Analytics, operating temperature, supervised external input, edge storage events, digital audio, virtual inputs through API		IEC/EŇ/UL 60950-22, IEC/EN/UL 62368-1, IS 13252
Event actions	Record video: SD card and network share		Environment
	Upload of images or video clips: FTP, SFTP, HTTPS, network		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,
	share and email		IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10 ^b , ISO 21207 Method
			B, MIL-STD-810H (Method 501.7, 502.7, 505.7, 506.6, 507.6,

T10144041/EN/M13.3/2304

	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
Dimensions	Ø132 x 272 mm (Ø5.2 x 10.7 in)
Weight	1400 g (3.1 lb)
Included accessories	Installation guide, Windows® decoder 1-user license, Resistorx® L-key, wall and ceiling mount bracket, terminal block connectors, connector guard
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 For more accessories, see axis.com

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, Simpli ed Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese
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.

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

