

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		Pre- and post-alarm video or image buffering for recording or
Camera			upload Notification: email, HTTP, HTTPS, TCP and SNMP trap
Image sensor	Uncooled microbolometer 384x288 pixels, pixel size: 17 µm. Spectral range: 8–14 µm	Data atronomina	Overlay text, play audio clip, I/O, MQTT
Lens	Athermalized	Data streaming	Event data
	7 mm	Built-in installation aids	Pixel counter
	Horizontal field of view: 55°, F1.18 Near focus distance: 1.3 m (4.3 ft)	Analytics	
	13 mm	Applications	Included
	Horizontal field of view: 28°, F1.0	Applications	AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard
	Near focus distance: 4 m (13 ft) 19 mm		AXIS Video Motion Detection, active tampering alarm, audio
	Horizontal field of view: 19.4°, F1.23		detection Supported
	Near focus distance: 8.5 m (28 ft) 35 mm		AXIS Perimeter Defender with Al-based functionality
	Horizontal field of view: 10.5°, F1.14		Support for AXIS Camera Application Platform enabling
	Near focus distance: 33 m (108 ft)	~ .	installation of third-party applications, see axis.com/acap
Sensitivity	NETD 40 mK @25C, F1.0	General	IDCC/IDCZ NEMA AV and IVAO metado acciono
System on chip	(SoC)	Casing	IP66/IP67-, NEMA 4X-, and IK10-rated ^b casing Polycarbonate blend and aluminum
Model	ARTPEC-7		Color: white NCS S 1002-B
Memory	1024 MB RAM, 512 MB Flash	Sustainability	PVC free, BFR/CFR free
Video		Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3
Video	H.264 (MPEG-4 Part 10/AVC) Baseline, Main, and High Profiles		Typical 4.96 W, max 12.95 W
compression	H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG		12–28 V DC, typical 4.92 W, max 12.95 W
Resolution	Sensor is 384x288. Image can be scaled up to 768x576.	Connectors	Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T 3.5 mm mic/line in
Frame rate	Up to 8.3 fps and 30 fps		Terminal block for 1 supervised alarm input and 1 output (12 V
Video streaming	Multiple, individually configurable streams in H.264, H.265, and		DC output, max. load 25 mA) DC input, terminal block
video streaming	Motion JPEG	Storage	Support for microSD/microSDHC/microSDXC card
	Axis Zipstream technology in H.264 and H.265	Storage	Support for SD card encryption (AES-XTS-Plain64 256bit)
	Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265		Recording to network-attached storage (NAS)
	Video streaming indicator		For SD card and NAS recommendations see axis.com
Image settings	Contrast, brightness, sharpness, exposure zones, compression,	Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C
	rotation: auto, 0°, 90°, 180°, 270° including Corridor Format,		(165 °F)
	mirroring, dynamic text and image overlay, polygon privacy mask, electronic image stabilization		Humidity 10–100% RH (condensing)
Audio			De-icing capability, compliant to MIL-STD-810H Method 521.4
Audio streaming	One-way, two-way audio via edge-to-edge technology	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726	Approvals	EMC
	ADPCM 8 kHz, Opus 8/16/48 kHz		CISPR 24, CISPR 35, EN 50121-4, EN 55024,
	Configurable bit rate		EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), IEC 62236-4,
Audio input/output	External microphone input or line input, simplex, two-way audio via edge-to-edge technology, ring power, automatic gain control		KC KN32 Class A, KC KN35, RCM AS/NZS CISPR32 Class A,
Network			VCCI Class A
Security	Password protection, IP address filtering, HTTPS ^a encryption,		Safety IEC/EN/UL 60950-22, IEC/EN/UL 62368-1
•	IEEE 802.1x (EAP-TLS) ^a network access control, digest		Environment
	authentication, user access log, centralized certificate management, brute force delay protection, signed firmware,		IEC 60068-2-1, IEC/EN 60068-2-14, IEC 60068-2-2,
	secure boot, protection of cryptographic keys with FIPS 140-2		IEC 60068-2-27, IEC 60068-2-6, IEC/EN 60068-2-78, IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10 ^b , ISO 21207 Method
	certified TPM 2.0 module, Axis Edge Vault with Axis device ID		B, MIL-STD-810H (Method 501.7, 502.7, 505.7, 506.6, 507.6,
Supported	IPv4, IPv6 USGv6, HTTP, HTTPSa, HTTP/2, SSL/TLSa, QoS Layer		509.7, 510.7, 514.8, 516.8, 521.4), NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9)
protocols	3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP, TCP,		Network
	UDP, IGMPv1/v2/v3, RTCP, DHCPv4/v6, SOCKS, SSH, LLDP, MQTT		NIST SP500-267
	v3.1.1, Syslog	Dimensions	Ø132 x 272 mm (Ø5.2 x 10.7 in)
System integra		Weight	1400 g (3.1 lb)
Application Programming	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com	Included	Installation guide, Windows® decoder 1-user license, Resistorx®
Programming Interface	One-click cloud connection	accessories	L-key, wall and ceiling mount bracket, terminal block connectors, connector guard
	ONVIF® Profile G, ONVIF® Profile S, and ONVIF® Profile T,	Optional	AXIS T94F01M J-Box/Gang Box Plate, AXIS T91A47 Pole Mount,
	specification at onvif.org	accessories	AXIS T94F01N 3-50X/Gang Box Flate, AXIS T94F01P Conduit Back Box,
Onscreen controls	Heater, electronic image stabilization		AXIS Weather Shield K, Axis PoE Midspans
	Analytics, operating temperature, supervised external input, edge	Video	For more accessories, see axis.com AXIS Companion, AXIS Camera Station, video management
	storage events, digital audio, virtual inputs through API	management	software from Axis Application Development Partners available
Event actions	Record video: SD card and network share	software	at axis.com/vms
	Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email		
	Share and Cilidii		

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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

