

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

Variants	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	Date streets	Overlay text, play audio clip, I/O, MQTT	
Lens	Athermalized 7 mm	Data streaming Built-in	Event data Pixel counter	
	Horizontal field of view: 55°, F1.18	installation aids		
	Near focus distance: 1.3 m (4.3 ft) 13 mm	Analytics		
	Horizontal field of view: 28°, F1.0 Near focus distance: 4 m (13 ft) 19 mm 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 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 Al-based functionality Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
Sensitivity	NETD 40 mK @25C, F1.0	Approvals		
System on chir		EMC	CISPR 24, CISPR 35, EN 50121-4, EN 55024, EN 55032 Class A,	
Model	ARTPEC-7		EN 55035, EN 61000-6-1, EN 61000-6-2, IEC 62236-4 Australia/New Zealand: RCM AS/NZS CISPR32 Class A	
Memory	1024 MB RAM, 512 MB Flash		Canada: ICES-3(A)/NMB-3(A)	
•	1024 IVID ITAIVI, 312 IVID Hasii		Japan: VCCI Class A	
Video Video	LLOCA (MDEC. A Dart 10/A)/O) Daralina Main and High Durfla		Korea: KC KN32 Class A, KC KN35 USA: FCC Part 15 Subpart B Class A	
compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main, and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile	Safety	*	
•	Motion JPEG	<u> </u>	IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, IS 13252	
Resolution	Sensor is 384x288. Image can be scaled up to 768x576.	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,	
Frame rate	Up to 8.3 fps and 30 fps		IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10a, ISO 21207 Method	
Video streaming	ultiple, individually configurable streams in H.264, H.265, and otion JPEG		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,	
	Axis Zipstream technology in H.264 and H.265		NEMA TS 2 (2.2.7–2.2.9)	
	Controllable frame rate and bandwidth	Network	NIST SP500-267	
	VBR/ABR/MBR H.264/H.265 Video streaming indicator	Cybersecurity	ETSI EN 303 645, FIPS 140	
Image settings	Contrast, brightness, sharpness, exposure zones, compression,	Cybersecurity		
Audio	rotation: auto, 0°, 90°, 180°, 270° including Corridor Format, mirroring, dynamic text and image overlay, polygon privacy mask, electronic image stabilization	Edge security Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, passwo protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Axis Edge Vault cybersecurity platform		
Audio streaming	Audio in, simplex, two-way audio via edge-to-edge technology		TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), secure element (CC EAL	
Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate	Network security	6+), Axis device ID, secure keystore, signed video, secure boot IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR,	
Audio input/output	External microphone input or line input, digital audio input, network speaker pairing		HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall	
Network		Documentation	AXIS OS Hardening Guide	
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, DHCPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)		Axis Vulnerability Management Policy Axis Security Development Model AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecu- rity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity	
System integra	tion	General	.,	
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community.	Casing	IP66/IP67-, NEMA 4X-, and IK10-rated ^a casing Polycarbonate blend, aluminum and a germanium window Color: white NCS S 1002-B	
	One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and	Sustainability	PVC free, BFR/CFR free	
	ONVIF® Profile T, specification at <i>onvif.org</i>	Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3	
Video management systems	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.	Connectors	Typical 4.96 W, max 12.95 W 12–28 V DC, typical 4.92 W, max 12.95 W Shielded PMF 10RASE T/100RASE TY/100RASE T	
Onscreen controls	Heater, electronic image stabilization	Connectors	Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T 3.5 mm mic/line in Terminal block for 1 supervised alarm input and 1 output (12 \	
Event conditions	Analytics, operating temperature, supervised external input, edge storage events, digital audio, virtual inputs through API	Storage	DC output, max. load 25 mA) DC input, terminal block	
Event actions	Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email	Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com	

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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) De-icing capability, compliant to MIL-STD-810H Method 521.4	
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)	
Dimensions	Ø132 x 272 mm (Ø5.2 x 10.7 in)	
Weight	1400 g (3.1 lb)	
Included accessories		

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	
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.	

a. Excluding front window

