

# AXIS Q1952-E Thermal Camera

## High-resolution thermal imaging

AXIS Q1952-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 Q1952-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**
- > **VGA with 640x480 thermal resolution**



# AXIS Q1952-E Thermal Camera

<b>Models</b>	AXIS Q1952-E 10 mm/19 mm/35 mm
<b>Camera</b>	
<b>Image sensor</b>	Uncooled microbolometer 640x480 pixels, pixel size: 17 µm. Spectral range: 8-14 µm
<b>Lens</b>	Athermalized 10 mm Horizontal field of view: 63°, F1.17 Near focus distance: 2.8 m (9.2 ft) 19 mm Horizontal field of view: 31°, F1.23 Near focus distance: 8.5 m (28 ft) 35 mm Horizontal field of view: 17°, F1.14 Near focus distance: 33 m (108 ft)
<b>Sensitivity</b>	NETD 30 mK @25C, F1.0
<b>System on chip (SoC)</b>	
<b>Model</b>	ARTPEC-7
<b>Memory</b>	1024 MB RAM, 512 MB Flash
<b>Video</b>	
<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Baseline, Main, and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG
<b>Resolution</b>	Sensor is 640x480. Image can be scaled up to 800x600 (SVGA).
<b>Frame rate</b>	Up to 8.3 fps and 30 fps
<b>Video streaming</b>	Multiple, individually configurable streams in H.264, H.265, and Motion JPEG Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Video streaming indicator
<b>Image settings</b>	Contrast, brightness, sharpness, exposure zones, compression, rotation: auto, 0°, 90°, 180°, 270° including Corridor Format, mirroring, dynamic text and image overlay, polygon privacy mask, electronic image stabilization
<b>Audio</b>	
<b>Audio streaming</b>	Audio in, simplex, two-way audio via edge-to-edge technology
<b>Audio encoding</b>	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
<b>Audio input/output</b>	External microphone input or line input, digital audio input, network speaker pairing
<b>Network</b>	
<b>Security</b>	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, signed video, Axis Edge Vault, Axis device ID, secure keystore (CC EAL4 certified), TPM (FIPS 140-2 certified)
<b>Network protocols</b>	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS <sup>a</sup> , HTTP/2, TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (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, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)
<b>System integration</b>	
<b>Application Programming Interface</b>	Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="https://axis.com">axis.com</a> One-click cloud connection ONVIF <sup>®</sup> Profile G, ONVIF <sup>®</sup> Profile M, ONVIF <sup>®</sup> Profile S, and ONVIF <sup>®</sup> Profile T, specification at <a href="https://onvif.org">onvif.org</a>
<b>Onscreen controls</b>	Heater, electronic image stabilization
<b>Event conditions</b>	Analytics, operating temperature, supervised external input, edge storage events, digital audio, virtual inputs through API MQTT subscribe
<b>Event actions</b>	Record video: SD card and network share MQTT publish Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email

	Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP and SNMP trap Overlay text, play audio clip, I/O, MQTT
<b>Data streaming</b>	Event data
<b>Built-in installation aids</b>	Pixel counter
<b>Analytics</b>	
<b>Applications</b>	<b>Included</b> AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, active tampering alarm, audio detection <b>Supported</b> AXIS Perimeter Defender with AI-based functionality Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="https://axis.com/acap">axis.com/acap</a>
<b>General</b>	
<b>Casing</b>	IP66/IP67-, NEMA 4X-, and IK10-rated <sup>b</sup> casing Polycarbonate blend and aluminum Color: white NCS S 1002-B
<b>Sustainability</b>	PVC free, BFR/CFR free
<b>Power</b>	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 5.38 W, max 12.95 W 12-28 V DC, typical 5.40 W, max 12.95 W
<b>Connectors</b>	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 V DC output, max. load 25 mA) DC input, terminal block
<b>Storage</b>	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 <a href="https://axis.com">axis.com</a>
<b>Operating conditions</b>	-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
<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
<b>Approvals</b>	EMC CISPR 24, CISPR 35, EN 50121-4, EN 55024, 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, KC KN32 Class A, KC KN35, RCM AS/NZS CISPR32 Class A, VCCI Class A <b>Safety</b> IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, IS 13252 <b>Environment</b> 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) <b>Network</b> NIST SP500-267
<b>Dimensions</b>	Ø132 x 272 mm (Ø5.2 x 10.7 in)
<b>Weight</b>	1400 g (3.1 lb)
<b>Included accessories</b>	Installation guide, Windows <sup>®</sup> decoder 1-user license, Resistorx <sup>®</sup> L-key, wall and ceiling mount bracket, terminal block connectors, connector guard
<b>Optional accessories</b>	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 <a href="https://axis.com">axis.com</a>
<b>Video management software</b>	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at <a href="https://axis.com/vms">axis.com/vms</a>
<b>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese

<b>Warranty</b>	5-year warranty, see <a href="https://www.axis.com/warranty">axis.com/warranty</a>
<b>Export control</b>	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](https://www.axis.com/environmental-responsibility)