

AXIS Q2112-E Thermal Camera

Outstanding high-resolution detection and verification

Ideal for perimeter security, this high-resolution thermal camera offers reliable detection and verification 24/7 all while protecting privacy. It features a powerful sensor with extremely high thermal sensitivity for a low false alarm rate. And there's a choice of five lens options. It can be mounted on a positioning unit for 360° unobstructed views. AXIS Perimeter Defender is available for enhanced protection. Built on a powerful platform, it's possible to add third-party analytics. With edge-to-edge technology, you can easily integrate and trigger other devices such as a network speaker. Furthermore, Axis Edge Vault safeguards your device and protects sensitive information from unauthorized access.

- > High-resolution detection, low false alarm rate
- > Lens options available
- > Flexible mounting options
- > Support for powerful analytics
- > Built-in cybersecurity with Axis Edge Vault





AXIS Q2112-E Thermal Camera

Camera			DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog	
Variants	AXIS Q2112-E 10 mm AXIS Q2112-E 19 mm	(RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf) System integration		
	AXIS 02112-E 25 mm AXIS 02112-E 35 mm AXIS 02112-E 60 mm	Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform (ACAP); specifications at	
Image sensor Lens	Uncooled microbolometer 640x480 pixels, pixel size 17 µm. Spectral range: 8-14 µm Athermalized	interrace	oxis.com/developer-community. One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specifications at onvif.org	
	10 mm, F1.2 Horizontal field of view: 63° Near focus distance: 2.8 m (9.2 ft) 19 mm, F1.0 Horizontal field of view: 31° Near focus distance: 8.5 m (28 ft) 25 mm, F1.0 Horizontal field of view: 24° Near focus distance: 18.5 m (61 ft) 35 mm, F1.2 Horizontal field of view: 17° Near focus distance: 33 m (108 ft) 60 mm, F1.2 Horizontal field of view: 10° Near focus distance: 84 m (276 ft)	Video management systems	Compatible with AXIS Camera Station Edge, AXIS Camera Statio Pro, AXIS Camera Station 5, and video management software from Axis' partners available at axis.com/vms.	
		Onscreen controls	Electronic image stabilization Video streaming indicator Privacy masks Media clip Heater	
		Edge-to-edge	Speaker pairing	
		Event conditions	Audio: audio detection, audio clip playing Device status: above operating temperature, above or below operating temperature, below operating temperature, within operating temperature, IP address removed, new IP address, network lost, system ready, ring power overcurrent protection,	
Sensitivity	NETD <20 mK @25 °C, F1.0		live stream active, casing open	
Pan/Tilt	Supporting guard tour with up to 256 preset positions (positioning unit sold separately)		Digital audio input status Edge storage: recording ongoing, storage disruption, storage health issues detected	
System on chip			I/O: digital input, manual trigger, virtual input	
Model	ARTPEC-8		MQTT: subscribe Scheduled and recurring: schedule	
Memory	2048 MB RAM, 8192 MB Flash		Video: average bitrate degradation, tampering	
Compute capabilities	Deep learning processing unit (DLPU)	Event actions	Audio clips: play, stop I/O: toggle I/O once, toggle I/O while the rule is active	
Video	Hand (MDEC + D + + + + + + + + + + + + + + + + +		MQTT: publish Notification: HTTP, HTTPS, TCP, and email	
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG		Overlay text Pre- and post-alarm video or image buffering for recording or upload	
Resolution	Sensor is 640x480. Image can be scaled up to 800x600.		Recordings: SD card and network share	
Frame rate	Up to 8.3 fps or 30 fps depending on model		SNMP traps: send, send while the rule is active Status LED: flash	
Video streaming	Up to 20 unique and configurable video streams ^a Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265	Built-in	Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share, and email Pixel counter, level grid	
	Video streaming indicator	installation aids		
lmage settings	Contrast, brightness, sharpness, local contrast, exposure zones, compression, rotation: 0°, 90°, 180°, 270° including corridor format, mirroring, text and image overlay, polygon privacy mask, electronic image stabilization, multiple color palettes	Analytics Applications	Included AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, active tampering alarm,	
Image processing	Axis Zipstream		audio detection	
Audio Audio features	AGC automatic gain control Network speaker pairing Spectrum visualizer ^b		Supported AXIS Perimeter Defender Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
Audio streaming	Configurable duplex:	Approvals		
	Two-way (half duplex, full duplex)		S CSA, UL/cUL, CE, KC, VCCI, RCM	
Audio input	10-band graphic equalizer Input for external unbalanced microphone, optional 5 V microphone power Digital input, optional 12 V ring power Unbalanced line input	Supply chain EMC	TAA compliant CISPR 35, CISPR 32 Class A, EN 50121-4, EN 55032 Class A, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2 Australia/New Zealand: RCM AS/NZS CISPR 32 Class A	
Audio output	Output via network speaker pairing Line output		Canada: ICES(A)/NMB(A) Japan: VCCI Class A Korea: KS C 9835, KS C 9832 Class A	
Audio encoding	24bit LPCM, AAC-LC 8/16/32/44.1/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate	Safety	USA: FCC Part 15 Subpart B Class A Railway: IEC 62236-4	
Network		Safety	CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3, IS 13252	
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS ^c , HTTP/2, TLS ^d , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP,	Environment	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10 ^e ,	

	ISO 21207 Method B , MIL-STD-810H (Method 501.7, 502.7, 505.7, 506.6, 507.6, 509.7, 510.7, 512.6, 514.8, 516.8, 521.4) , NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9)
Network	NIST SP500-267
Cybersecurity	ETSI EN 303 645, BSI IT Security Label
Cybersecurity	
Edge security	Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection Hardware: Axis Edge Vault cybersecurity platform TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), secure element (CC EAL 6+), system-on-chip security (TEE), Axis device ID, secure keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ⁹ , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ^h , TLS v1.2/v1.3 ¹ , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy Axis Security Development Model AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecurity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity
General	
Casing	IP66/IP67-, NEMA 4X-, and IK10-rated ^j Aluminum Color: white NCS S 1002-B For repainting instructions, go to the product's support page. For information about the impact on warranty, go to axis.com/warranty-implication-when-repainting.
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 2 Class 4 Typical 5.2 W, max 25.5 W 10–28 V DC, typical 4.6 W, max 25.5 W
Connectors	Network: RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE I/O: Terminal block for two supervised and two unsupervised configurable inputs / digital outputs (12 V DC output, max. load 50 mA) Audio: 3.5 mm mic/line in, 3.5 mm line out Serial communication: RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block Power: DC input, terminal block
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
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)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
Dimensions	For the overall product dimensions, see the dimension drawing

in this datasheet.

	Effective Projected Area (EPA): 0.05 m² (0.48 ft²)	
Weight	10 mm, 19 mm, 25 mm, 35 mm: 3.3 kg (7.3 lb) 60 mm: 3.5 kg (7.7 lb)	
Box content	Camera, installation guide, terminal block connectors, connector guard, cable gaskets, owner authentication key	
Optional accessories	AXIS TQ1818-E Positioning Unit, AXIS TQ1003-E Wall Mount For more accessories, go to axis.com/products/axis-q2112-e#accessories	
System tools	AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator Available at 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.	
Part numbers	Available at axis.com/products/axis-q2112-e#part-numbers	
Sustainability		
Substance control	PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709 RoHS in accordance with EU RoHS Directive 2011/65/EU/ and EN 63000:2018 REACH in accordance with (EC) No 1907/2006.	
Materials	Renewable carbon-based plastic content: 7% (recycled: 2%, bio-based: 5%) ^k Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to axis.com/about-axis/sustainability	
Environmental responsibility	axis.com/environmental-responsibility Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org	
a. We recommend a maximum of 3 unique video streams per camera or channel, for optimized user experience, network bandwidth, and storage utilization. A unique video stream can be served to many video clients in the network using multicast or unicast transport method via built-in stream reuse functionality.		

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b. Feature available with ACAP

C. 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).

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E. Xcluding front window

f. 514.8 and 516.8 only applicable to 60mm lens variant.

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