

AXIS Q8752-E Bispectral PTZ Camera

Thermal detection and visual verification

AXIS Q8752-E offers reliable thermal detection and visual verification in one bispectral camera. It features 360° infinite pan for fast repositioning and continuous tracking of objects. Featuring Electronic Image Stabilization (EIS) on both channels it ensures smooth video. Forensic WDR and Lightfinder 2.0 guarantees images with saturated colors and sharp details of moving objects even in challenging light or near darkness. This robust camera is packed with advanced security functionality. Built on a powerful analytics platform, it's easy to add custom-made 3rd party analytics. Furthermore, it's possible to connect AXIS Q8752-E using fiber optic cabling to overcome distance and bandwidth limitations.

- > **Thermal and visual camera in one**
- > **360° infinite pan**
- > **Dual Electronic Image Stabilization**
- > **Signed firmware, secure boot, and TPM 2.0**
- > **Thermal palettes**



AXIS Q8752-E Bispectral PTZ Camera

Variants	AXIS Q8752-E 35 mm 8.3/30 fps AXIS Q8752-E Zoom 8.3/30 fps	Audio input/output	External microphone input or line input
Camera		Network	
Image sensor	Visual: 1/2.8" progressive scan CMOS Thermal: Uncooled microbolometer 640x480 pixels, pixel size: 17 µm. Spectral range: 8–14 µm	Security	IP address filtering, HTTPS ^c encryption, IEEE 802.1x (EAP-TLS) ^c network access control, user access log, centralized certificate management
Lens	Visual: Varifocal, 4.3–137.6 mm, F1.4–4.0 Horizontal field of view: 58.5°–2.4° Vertical field of view: 35°–1.3° Autofocus, auto-iris Thermal: 35 mm: Athermalized 35 mm, F1.2 Near focus distance: 33 m (108 ft) Horizontal field of view: 17° Vertical field of view: 12.8° Zoom: Athermalized 35–105 mm, F1.6 Near focus distance: 22–195 m (72–640 ft) Near manual focus distance: 7 m (23 ft) Horizontal field of view: 18°–6° Vertical field of view: 13.5°–4.5°	Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS ^c , HTTP/2, TLS ^c , 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, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SSH, NTCIP, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)
Day and night	Visual: Automatically removable infrared-cut filter	System integration	
Minimum illumination	Visual: Color: 0.09 lux at 30 IRE, F1.4 B/W: 0.008 lux at 30 IRE, F1.4 Color: 0.06 lux at 50 IRE, F1.4 B/W: 0.01 lux at 50 IRE, F1.4	Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at <i>axis.com</i> ONVIF [®] Profile G, ONVIF [®] Profile M, ONVIF [®] Profile S, and ONVIF [®] Profile T, specification at <i>onvif.org</i>
Sensitivity	Thermal: NETD < 50 mK	Event conditions	Device status: above operating temperature, above or below operating temperature, below operating temperature, IP address removed, network lost, new IP address, PTZ power failure, ring power overcurrent protection, storage failure, system ready, within operating temperature Digital audio input status Edge storage: recording ongoing, storage disruption, storage health issues detected PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready Scheduled and recurring: scheduled event Video: average bitrate degradation, day-night mode, live stream open
Shutter speed	Visual: 1/66500 s to 2 s	Event actions	Day-night mode Guard tour I/O Images: FTP, HTTP, HTTPS, SFTP, email and network share IR illumination: turn on, use while the rule is active MQTT: publish Notification: HTTP, HTTPS, TCP and email Overlay text Preset positions PTZ Autotracking: start temporary detection, toggle autotracking Recordings SNMP trap messages: send messages Video clips: FTP, HTTP, HTTPS, SFTP, email and network share WDR mode Wiper
Pan/Tilt/Zoom	Pan: 360° endless, 0.05°–120°/s Tilt: -90° to +45°, 0.05°–65°/s Jerk-free movements at low speed: ±0.01°/s (at 0.05°/s) Preset accuracy: 0.05° 256 preset positions, guard tour, control queue, focus window, on-screen directional indicator, de-icing control ^a , dynamic load balancing ^b Visual: 32x optical zoom, 12x digital zoom, total 384x zoom, focus recall Thermal: Zoom: 3x thermal zoom and 4x digital zoom, total 12x zoom	Data streaming	Event data
System on chip (SoC)		Built-in installation aids	Pixel counter, focus assistant
Model	ARTPEC-7	Analytics	
Video		Applications	Included AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, Orientation AID PTZ, audio detection, advanced gatekeeper Support for AXIS Camera Application Platform enabling installation of third-party applications, see <i>axis.com/acap</i>
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	Approvals	
Resolution	Visual: 1920x1080 HDTV 1080p to 320x180 Thermal: Sensor is 640x480. Image can be scaled up to 800x600 (SVGA)	EMC	EN 55032 Class A, EN 55024, EN 61000-6-1, EN 61000-6-2, CISPR 35, EN 50121-4, EN 50498 Australia/New Zealand: RCM AS/NZS CISPR 32 Class A Canada: ICES-3(A)/NMB-3(A) Japan: VCCI Class A ITE Korea: KC KN32 Class A, KC KN35 USA: FCC Part 15 Subpart B Class A Railway: IEC 62236-4
Frame rate	Visual: Up to 50/60 fps (50/60 Hz) in HDTV 1080p Thermal: Up to 8.3 fps and 30 fps	Safety	IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, CAN/CSA C22.2 No. 62368-1, CAN/CSA-C22.2 No. 60950-22
Video streaming	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	Environment	IEC/EN 60529 IP66, IEC 62262 IK10 ^d , NEMA 250 Type 4x, NEMA TS 2 (2.2.7-2.2.9), ISO 21207 (Method B), IEC/EN 60068-2-1, IEC/EN 60068-2-2, IEC 60068-2-6, IEC/EN 60068-2-14, IEC 60068-2-27, IEC/EN 60068-2-78, MIL-STD-810G (Method 501.5, 502.5, 505.5, 506.5, 507.5, 509.5)
Image settings	Visual: Saturation, contrast, brightness, sharpness, Forensic WDR: up to 120 dB depending on scene, white balance, day/night threshold, tone mapping, exposure control, exposure zones, defogging, compression, dynamic text and image overlay, 32 individual polygon privacy masks, electronic image stabilization Thermal: Compression, brightness, sharpness, contrast, local contrast, exposure control, exposure zones, text and image overlay, electronic image stabilization		
Audio			
Audio streaming	Audio in, simplex Echo cancellation and noise cancellation		
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	NIST SP500-267	Humidity 10-100% RH (condensing)
Cybersecurity	ETSI EN 303 645, FIPS 140	Wind load when PTZ operational 37 m/s (83 mph) ⁹ , 45 m/s (100 mph) without weathershield With AXIS PT IR Illuminator Kit C: 40 m/s (90 mph), 52 m/s (116 mph) without weathershield Maximum effective projected area (EPA): 0.138 m ²
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, AES-XTS-Plain64 256bit SD card encryption Hardware: Axis Edge Vault cybersecurity platform TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), secure element (CC EAL 6+), Axis device ID, secure keystore, signed video, secure boot	Storage conditions -40 °C to 70 °C (-40 °F to 158 °F)
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^c , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ^c , TLS v1.2/v1.3 ^c , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall	Dimensions 244 x 360 x 582 mm (9.5 x 14 x 23 in)
Documentation	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> 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	Weight 35 mm: 14.7 kg (32.4 lb) Zoom: 15.1 kg (33.3 lb)
General		
Casing	IP66-, NEMA 4X- and IK10-rated ^d powder coated aluminum Color: white NCS S 1002-B Front window: visual: glass, thermal: germanium Long-life silicone wiper Weathershield: high-impact UV-stabilized thermoplastic	Included accessories Installation guide, Windows [®] decoder 1-user license, connector kit, Torx [®] T20 bit, Torx [®] T30 bit, connector guard
Sustainability	PVC free	Optional accessories AXIS Surveillance Cards, AXIS T94J01A Wall Mount, AXIS T94N01G Pole Mount, AXIS T95A64 Corner Bracket, AXIS Washer Kit B, AXIS Cable 24 V DC/24-240 V AC 22 m ^h , AXIS T8611 SFP Module LC.LX, AXIS T8612 SFP Module LC.SX, AXIS T8613 SFP Module 1000BASE-T, AXIS PT IR Illuminator Kit C, AXIS T99 Illuminator Bracket Kit A, Power supply DIN PS24 480 W, AXIS T61 Audio and I/O Interface Series For more accessories, see axis.com
Memory	2048 MB RAM, 512 MB Flash	Video management software AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at axis.com/vms
Power	20-28 V AC/DC, typical 16 W, max 204 W Power loss recovery ^e TVS 2000V, surge protection, voltage transient protection I/O connector: output power 12 V DC, max load 50 mA	Languages English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Connectors	SFP slot (SFP module not included) ^f Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T I/O: 6-pin 2.5 mm terminal block for 4 configurable inputs/outputs Power: terminal block Audio (in camera unit): 3.5 mm mic/line in Illumination (in upper part of positioning unit)	Warranty 5-year warranty, see axis.com/warranty
Storage	Support for microSD/microSDHC/microSDXC card and encryption Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com	Export control The product contains U.S.-origin controlled technology/component, the US Export Administration Regulations (EAR) are always applicable to the product. You should comply at all times with all applicable national and international (re-) export control regulations.
Operating conditions	-40 °C to 55 °C (-40 °F to 131 °F) Maximum temperature (intermittent): 65 °C (149 °F) Start-up temperature: -40 °C (-40 °F)	

- Internal heaters to defrost ice build-up, activated by HTTP API (VAPIX).
- Pan and tilt motors actively compensate for changes in load conditions induced by external forces such as high winds. This allows minimum power consumption at low wind.
- This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eyay@cryptsoft.com).
- Excluding front window.
- IP data and home position retained, and guard tour and other events resumed.
- If a network link is established via both the SFP slot and the RJ45 connector, the former acts as the primary link and the latter as the fail-over link.
- The values shown are based on results from actual wind tunnel testing. For drag force calculations, use maximum effective projected area (EPA).
- When using the 22 m (72 ft) AXIS Cable 24 V DC/24-240 V AC, a power supply capable of delivering 300 W is required to compensate for the power loss in the cable.