

# AXIS Q8752-E Mk II Bispectral PTZ Camera

## Thermal detection and visual verification

This bispectral camera offers reliable thermal detection and visual verification. It features 360° infinite pan for fast repositioning and continuous tracking of objects. Electronic image stabilization (EIS) on both channels ensures smooth video. And Lightfinder 2.0 and Forensic WDR deliver true colors and great detail in near darkness or challenging light. Built on a powerful analytics platform, it's easy to add Axis and 3rd party analytics. It's possible to connect this camera using fiber optic cabling to overcome distance and bandwidth limitations.

- > Thermal and visual camera in one
- > 360° infinite pan
- > Dual Electronic Image Stabilization
- > Built-in cybersecurity
- > Thermal palettes









Variants	AXIS Q8752-E Mk II 35 mm 8.3 fps	Audio		
	AXIS Q8752-E Mk II 35 mm 30 fps AXIS Q8752-E Mk II Zoom 8.3 fps	Audio streaming	One-way (simplex, half duplex)	
	AXIS Q8752-E Mk II Zoom 30 fps	Audio input	External microphone input or line input	
Camera Image sensor	Visual: 1/2.8" progressive scan CMOS	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 bitrate	
	Thermal: Uncooled microbolometer 640x480 pixels, pixel size: 17 µm. Spectral range: 8–14 µm	Network	configuration of the configura	
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: 31 m (102 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)	Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS <sup>c</sup> , HTTP/2, TLS, 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, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)	
		System integration		
		Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community.  One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specifications at anvif.org	
Day and night	Horizontal field of view: 18°-6° Vertical field of view: 13.5°-4.5°  Visual: Automatic IR-cut filter	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.	
Day and night Minimum	Visual:	Onscreen	Image stabilization Day/night shift	
illumination	Color: 0.06 lux at 50 IRE, F1.4 B/W: 0.01 lux at 50 IRE, F1.4	Controls	Dayingni Smit Video streaming indicator IR illumination	
Sensitivity	Thermal: NETD < 50 mK		Privacy masks	
Shutter speed	<b>Visual:</b> 1/66500 s to 2 s		Media clip Focus recall zone	
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 controla, dynamic load balancingb Visual: 32x optical zoom, 12x digital zoom, total 384x zoom, focus recall Thermal: Zoom: 3x thermal zoom and 4x digital zoom, total 12x zoom 35mm: fixed focal, no digital zoom		Timed wiper Wiper Heater	
		Edge-to-edge	Microphone pairing Speaker pairing	
		Event conditions	Application Device status: above/below/within operating temperature, IP address blocked/removed, live stream active, network lost, new IP address, PTZ power failure, ring power overcurrent protection system ready Digital audio: digital signal contains Axis metadata, digital signal	
System on chip	o (SoC)		has invalid sample rate, digital signal missing, digital signal okay	
Model	ARTPEC-7		Edge storage: recording ongoing, storage disruption, storage health issues detected	
Memory	2 GB RAM, 512 MB Flash		I/O: digital input is active, manual trigger, virtual input is active	
Compute capabilities	Deep learning processing unit (DLPU)		MQTT: MQTT client connected PTZ: PTZ control queue, PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready	
Video			Scheduled and recurring: schedule	
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	Event actions	Video: average bitrate degradation, day-night mode  Day-night mode Guard tour I/O: toggle I/O once, toggle I/O while the rule is active Illumination: use lights, use lights while the rule is active MOTT: send MOTT publish message Notification: HTTP, HTTPS, TCP and email Overlay text PTZ: PTZ preset, start/stop guard tour Recordings: record audio, record audio while the rule is active Security: erase configuration SNMP trap messages: send, send while the rule is active Images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email WDR mode Wiper: use wiper	
Resolution	Visual: 1920x1080 HDTV 1080p to 320x180 Thermal: Sensor is 640x480. Image can be scaled up to 800x600 (SVGA)			
Frame rate	Visual: Up to 50/60 fps (50/60 Hz) in HDTV 1080p Thermal: Up to 8.3 fps or 30 fps depending on model			
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 Low latency mode			
WDR	Forensic WDR: Up to 120 dB depending on scene	Built-in	Pixel counter, level grid	
lmage settings	Visual: Saturation, contrast, brightness, sharpness, 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	installation aids Analytics	Edurici, iere grid	
		Applications	Included	
		Abhirarions	AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, Orientation AID PTZ, audio detection, advanced gatekeeper	

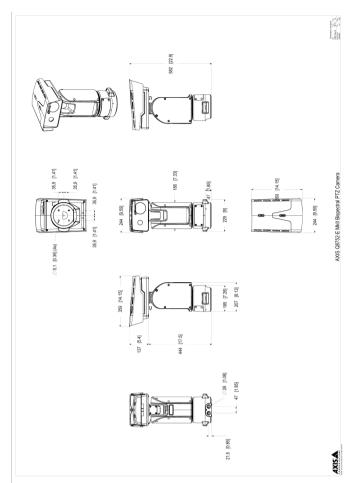
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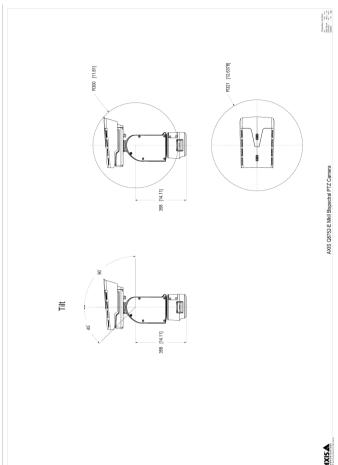
	Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	Operating conditions	-40 °C Maxim
Approvals			(165 F) Start-u
Product markings	UL/cUL, CE, KC, VCCI, RCM		Humidi
Supply chain	TAA compliant		Wind I 37 m/s
EMC	CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, EN 50121-4, EN 61000-6-1, EN 61000-6-2  Australia/New Zealand: RCM AS/NZS CISPR 32 Class A		With A 52 m/s Maxim
	Canada: ICES(A)/NMB(A) Japan: VCCI Class A Korea: KS C 9835, KS C 9832 Class A	Storage conditions	Temper Humidi
	USA: FCC Part 15 Subpart B Class A Railway: IEC 62236-4	Dimensions	244 x 3 For the
Safety	CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3		in this Effectiv
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, IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9), ISO 21207 (Method B),	Weight  Box content	35 mm Zoom:
	MIL-STD-810 H (Method 501.7, 502.7, 505.7 506.6, 507.6, 509.7, 521.4		AXIS S
Network	NIST SP500-267, IPv6 USGv6	accessories	AXIS T
Cybersecurity	ETSI EN 303 645, FIPS 140		Bracket 22 mh
Cybersecurity			LC.SX,
Edge security	Software: Signed OS, brute force delay protection, digest		Kit A, F
	authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password		Interfa
	protection		ii#com
	Secure keystore: TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2) Secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)	System tools	AXIS S
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) <sup>c</sup> ,		accesso Availab
	IEEE 802.1AE (MACSec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3 <sup>c</sup> , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall	Languages	English Chinese Chinese
Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy		Vietnar
	Axis Security Development Model	Warranty	5-year
	AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecu- rity/resources	Export control	This pro you sho interna
	To read more about Axis cybersecurity support, go to axis.com/cybersecurity	Part numbers	Availab numbe
General		Sustainability	
Casing	IP66-, NEMA 4X- and IK10-rated 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 This product can be repainted.	Substance control	PVC fre RoHS in 2015/8 REACH see ech
	For repainting instructions, go to the product's support	Materials	Screen
Power	page. For information about the impact on warranty, go to axis.com/warranty-implication-when-repainting.  52–58 V DC, typical 25 W, max 185 W		guideli To read <i>axis.co</i>
Tower	Power loss recovery <sup>d</sup>	Environmental	axis.co
	Surge protection 2kV, according to EN 61000-4-5	responsibility	Axis Co read m
Connectors	Audio: 3.5 mm mic/line in I/O: 6-pin 2.5 mm terminal block for 4 configurable inputs/outputs Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T, SFP slot (SFP module not included) <sup>e</sup> Power: DC input, terminal block	a. Internal heaters to defros b. Pan and tilt motors activ by external forces such a at low wind. c. This product includes sof OpenSSL Toolkit. (opens	
Storage	Illumination (in upper part of positioning unit)  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	(eay@cryptsoft.com). d. IP data and home position e. If a network link is estable former acts as the primar f. The values shown are bas force calculations, use mo	

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)  Start-up temperature: -40 °C (-40 °F)  Humidity 10-100% RH (condensing)  Wind load when PTZ operational  37 m/s (83 mph) <sup>f</sup> , 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): 0.121 m²
Storage conditions	Temperature: -40 °C to 65 °C (-40 °F to 149 °F) Humidity: 5–95% RH (non-condensing)
Dimensions	244 x 360 x 582 mm (9.5 x 14 x 23 in) For the overall product dimensions, see the dimension drawing in this datasheet. Effective Projected Area (EPA): 0.121 m² (0.39 ft²)
Weight	35 mm: 14.9 kg (32.8 lb) Zoom: 15.3 kg (33.7 lb)
Box content	Camera, installation guide, connector kit
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 mh , AXIS T8611 SFP Module LC.LX, AXIS T8612 SFP Module LC.SX, AXIS PT IR Illuminator Kit C, AXIS T99 Illuminator Bracket Kit A, Power supply DIN PS56 480 W, AXIS T61 Audio and I/O Interface Series For more accessories, see axis.com/products/axis-q8752-e-mk-ii#compatible-products
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-q8752-e-mk-ii#part- numbers
Sustainability	
Substance control	PVC free RoHS in accordance with EU RoHS Directive 2011/65/EU and 2015/863, and standard EN IEC 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu
Materials	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. Internal heaters t b. Pan and tilt moto by external force at low wind	to defrost ice build-up, activated by HTTP API (VAPIX). ors actively compensate for changes in load conditions induced or such as high winds. This allows minimum power consumption

- oftware developed by the OpenSSL Project for use in the csl.org), and cryptographic software written by Eric Young

- on retained, and guard tour and other events resumed. blished via both the SFP slot and the RJ45 connector, the ary link and the latter as the fail-over link. ased on results from actual wind tunnel testing. For drag naximum effective projected area (EPA).





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#### Electronic image stabilization

Electronic image stabilization (EIS) provides smooth video in situations where a camera is subject to vibrations. Built-in gyroscopic sensors continuously detect the camera's movements and vibrations, and they automatically adjust the frame to ensure you always capture the details you need. Electronic image stabilization relies on different algorithms for modeling camera motion, which are used to correct the images.

#### Lightfinder

The Axis Lightfinder technology delivers high-resolution, full-color video with a minimum of motion blur even in near darkness. Because it strips away noise, Lightfinder makes dark areas in a scene visible and captures details in very low light. Cameras with Lightfinder discern color in low light better than the human eye. In surveillance, color may be the critical factor to identify a person, an object, or a vehicle.

#### Forensic WDR

Axis cameras with wide dynamic range (WDR) technology make the difference between seeing important forensic de-

tails clearly and seeing nothing but a blur in challenging light conditions. The difference between the darkest and the brightest spots can spell trouble for image usability and clarity. Forensic WDR effectively reduces visible noise and artifacts to deliver video tuned for maximal forensic usability.

#### Thermal palettes

A mode that allows the user to select a color range to show relative temperature differences in a scene. The user can choose between black-and-white ranges, color ranges, or a mix between the two. The same input (measured thermal radiation) can result in different visual appearance depending on how each pixel value is mapped to a color range.

### **Zipstream**

The Axis Zipstream technology preserves all the important forensic in the video stream while lowering bandwidth and storage requirements by an average of 50%. Zipstream also includes three intelligent algorithms, which ensure that relevant forensic information is identified, recorded, and sent in full resolution and frame rate.

