AXIS Q8741-E Bispectral PTZ Network Camera

Thermal and visual surveillance in one

AXIS Q8741-E Bispectral PTZ Network Camera is a high-end combination of a visual sensor (HDTV 1080p) with zoom (30x optical) and a thermal sensor (384x288). The positioning camera is ideal for mission-critical surveillance that demands 24-hour monitoring of restricted areas. AXIS Q8741-E is designed for continuous and jerk-free pan (360°) and tilt movements (135° from ground to sky). Easy to control and install with one IP address and multiple mounting options. When column-mounted, it enables 360° unobstructed field of view.

- > Reliable detection, fast verification and identification
- > Responsive positioning 360° endless pan and 135° from ground to sky
- > Bispectral video streams
- > Easy to install with one IP address
- > Long-distance network connection



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Camera

Image sensor	**Visual:** 1/2.8" progressive scan CMOS **Thermal:** Uncooled micro bolometer 384x288 pixels, Pixel size: 17µm
Lens	**Visual:** 4.3–129 mm, F1.6–4.7 Horizontal field of view: 65.6°–2° Vertical field of view: 39°–1.2° Autofocus, auto-iris **Thermal:** Athermalized 35 mm, F1.2 Near focus distance: 33 m (108 ft) Horizontal field of view: 10.5° Vertical field of view: 7.9°
Day and night	**Visual:** Automatically removable infrared-cut filter in night mode
Minimum illumination	**Visual:** Color: 0.2 lux at 30 IRE F1.6 B/W: 0.01 lux at 30 IRE F1.6 Color: 0.25 lux at 50 IRE F1.6 B/W: 0.02 lux at 50 IRE F1.6
Sensitivity	**Thermal:** NETD < 70 mK
Shutter time	**Visual:** 1/66500 s to 2 s
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:** 30x optical zoom and 12x digital zoom, total 360x zoom, Focus recall

Video

Video compression	H.264 (MPEG-4 Part 10/AVC), Baseline, Main and High Profiles Motion JPEG
Resolution	**Visual:** 1920x1080 (HDTV 1080p) to 320x180 **Thermal:** Sensor is 384x288. Image can be scaled up to 768x576
Frame rate	**Visual:** Up to 25/30 fps (50/60 Hz) in HDTV 1080p **Thermal:** Up to 8.3 fps and 30 fps
Video streaming	Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/MBR H.264 Multiple, individually configurable streams in H.264 and Motion JPEG
Image settings	**Visual:** Compression, color, brightness, sharpness, contrast, local contrast, white balance, exposure control, exposure zones, automatic backlight compensation, fine tuning of behavior at low light, 120 dB WDR - forensic capture, manual shutter time, text and image overlay, 20 individual 3D privacy masks, electronic image stabilization **Thermal:** Compression, brightness, sharpness, contrast, local contrast, exposure control, exposure zones, text and image overlay

Network

Security	Password protection, IP address filtering, HTTPS[c] encryption, network fail-over link[e], IEEE 802.1X[c] network access control, digest authentication, user access log, centralized certificate management
Supported protocols	IPv4/v6, HTTP, HTTPS[c], SSL/TLS[c], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP™, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, NTCIP

System integration

Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at *axis.com* AXIS Video Hosting System (AVHS) ONVIF® Profile S and ONVIF® Profile G, specification at *onvif.org*
Analytics	**Included** AXIS Video Motion Detection **Supported** AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap*
Event triggers	Analytics, temperature, external input, time scheduled, edge storage events, PTZ preset
Event actions	Record video: SD card and network share 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 PTZ: PTZ preset, start/stop guard tour Overlay text, external output activation, wiper sequence, washer sequence
Data streaming	Event data
Built-in installation aids	Pixel counter

General

Casing	IP66- and NEMA 4X-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
Sustainability	PVC free
Memory	512 MB RAM, 512 MB Flash
Power	24 V AC/DC, typical 16 W, max 204 W Power loss recovery[d] TVS 2000V, surge protection, voltage transient protection **I/O connector:** output power 12 V DC, max load 50 mA
Connectors	SFP slot (SFP module not included)[e] RJ45 10BASE-T/100BASE-TX/1000BASE-T network connector[e] Power connector I/O connector: 6-pin terminal block with 4 configurable inputs/outputs
Storage	Support for microSD/microSDHC/microSDXC card (included) Support for SD card encryption Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see *axis.com*
Operating conditions	-50 °C to 55 °C (-58 °F to 131 °F) Maximum (intermittent): 65 °C (149 °F) Arctic Temperature Control: start-up at -40 °C (-40 °F) Humidity: 10-100% RH (condensing) **Wind load when PTZ operational** 37 m/s (83 mph)[f], 45 m/s (100 mph) without weathershield Maximum effective projected area (EPA): 0.138 m^2
Storage conditions	-40 °C to 70 °C (-40 °F to 158 °F)
Approvals	**EMC** EN 55032 Class A, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, VCCI Class A ITE, ICES-003 Class A, RCM AS/NZS CISPR 32 Class A, EN 50121-4, IEC 62236-4 **Environment** IEC/EN 60529 IP66, IEC 62262 IK10[g], NEMA 250 Type 4x, ISO 4892-2, IEC 60721-3-4, 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 **Safety** IEC/EN/UL 60950-1, IEC/EN/UL 60950-22
Dimensions	245 x 360 x 582 mm (9½ x 14 x 23 in)
Weight	14.7 kg (32.4 lb)
Included accessories	Installation Guide AXIS Surveillance Card 64 GB Connector Kit Torx® T20 bit, Torx® T30 bit
Optional accessories	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 T99 Illuminator Bracket Kit A, Power supply DIN PS24 480 W For more accessories, see *axis.com*

Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at *axis.com/vms*
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see *axis.com/warranty*
Export control	This product is subject to export control regulations. You should always consult and comply with the regulations of the appropriate local export control authorities.

a. *Internal heaters to defrost ice build-up, activated by HTTP API (VAPIX).*
b. *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.*
c. *This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (www.openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).*
d. *IP data and home position retained, and guard tour and other events resumed.*
e. *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.*
f. *The values shown are based on results from actual wind tunnel testing. For drag force calculations, use maximum effective projected area (EPA).*
g. *Excluding front window.*
h. *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.*

Environmental responsibility:

axis.com/environmental-responsibility

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