

# 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**



# AXIS Q8741-E Bispectral PTZ Network Camera

## Camera

<b>Image sensor</b>	<b>Visual:</b> 1/2.8" progressive scan CMOS <b>Thermal:</b> Uncooled micro bolometer 384x288 pixels, Pixel size: 17µm
<b>Lens</b>	<b>Visual:</b> 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 <b>Thermal:</b> Athermalized 35 mm, F1.2 Near focus distance: 33 m (108 ft) Horizontal field of view: 10.5° Vertical field of view: 7.9°
<b>Day and night</b>	<b>Visual:</b> Automatically removable infrared-cut filter in night mode
<b>Minimum illumination</b>	<b>Visual:</b> 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
<b>Sensitivity</b>	<b>Thermal:</b> NETD < 70 mK
<b>Shutter time</b>	<b>Visual:</b> 1/66500 s to 2 s
<b>Pan/Tilt/Zoom</b>	<b>Pan:</b> 360° endless, 0.05°–120°/s <b>Tilt:</b> -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 <sup>a</sup> , dynamic load balancing <sup>b</sup> <b>Visual:</b> 30x optical zoom and 12x digital zoom, total 360x zoom, Focus recall

## Video

<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC), Baseline, Main and High Profiles Motion JPEG
<b>Resolution</b>	<b>Visual:</b> 1920x1080 (HDTV 1080p) to 320x180 <b>Thermal:</b> Sensor is 384x288. Image can be scaled up to 768x576
<b>Frame rate</b>	<b>Visual:</b> Up to 25/30 fps (50/60 Hz) in HDTV 1080p <b>Thermal:</b> Up to 8.3 fps and 30 fps
<b>Video streaming</b>	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
<b>Image settings</b>	<b>Visual:</b> 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 <b>Thermal:</b> Compression, brightness, sharpness, contrast, local contrast, exposure control, exposure zones, text and image overlay

## Network

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

## System integration

<b>Application Programming Interface</b>	Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="http://www.axis.com">www.axis.com</a> AXIS Video Hosting System (AVHS) ONVIF <sup>®</sup> Profile S and ONVIF <sup>®</sup> Profile G, specification at <a href="http://www.onvif.org">www.onvif.org</a>
<b>Analytics</b>	<b>Included</b> AXIS Video Motion Detection <b>Supported</b>

AXIS Perimeter Defender, AXIS Camera Application Platform enabling installation of third-party applications, see [www.axis.com/acap](http://www.axis.com/acap)

<b>Event triggers</b>	Analytics, temperature, external input, time scheduled, edge storage events, PTZ preset
<b>Event actions</b>	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
<b>Data streaming</b>	Event data
<b>Built-in installation aids</b>	Pixel counter
<b>General</b>	
<b>Casing</b>	IP66- and NEMA 4X-rated powder coated aluminum Color: white NCS S 1002-B Front window: <b>Visual:</b> Glass, <b>Thermal:</b> Germanium Long-life silicone wiper Weathershield: High-impact UV-stabilized thermoplastic
<b>Sustainability</b>	PVC free
<b>Memory</b>	512 MB RAM, 512 MB Flash
<b>Power</b>	24 V AC/DC, typical 16 W, max 204 W TVS 2000V, surge protection, voltage transient protection <b>I/O connector:</b> output power 12 V DC, max load 50 mA
<b>Connectors</b>	SFP slot (SFP module not included) <sup>d</sup> RJ45 10BASE-T/100BASE-TX/1000BASE-T network connector <sup>d</sup> Power connector <b>I/O connector:</b> 6-pin terminal block with 4 configurable inputs/outputs
<b>Storage</b>	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 <a href="http://www.axis.com">www.axis.com</a>
<b>Operating conditions</b>	-50 °C to 55 °C (-58 °F to 131 °F) Arctic Temperature Control: start-up at -40 °C (-40 °F) Humidity: 10-100% RH (condensing) <b>Wind load when PTZ operational</b> 37 m/s (83 mph) <sup>e</sup> , 45 m/s (100 mph) without weathershield Maximum effective projected area (EPA): 0.138 m <sup>2</sup>
<b>Storage conditions</b>	-40 °C to 70 °C (-40 °F to 158 °F)
<b>Approvals</b>	<b>EMC</b> 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 <b>Environment</b> IEC/EN 60529 IP66, IEC 62262 IK10 <sup>f</sup> , NEMA 250 Type 4x, ISO 4892-2, IEC 60721-3-4 <b>Safety</b> IEC/EN/UL 60950-1, IEC/EN/UL 60950-22
<b>Dimensions</b>	245 x 355 x 580 mm (9½ x 14 x 23 in)
<b>Weight</b>	14.9 kg (32.8 lb)
<b>Included accessories</b>	Installation Guide AXIS Surveillance microSDXC <sup>™</sup> Card 64 GB Connector Kit Torx <sup>®</sup> T20 bit, Torx <sup>®</sup> T30 bit
<b>Optional accessories</b>	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 <sup>9</sup> , AXIS T8611 SFP Module LC.LX, AXIS T8612 SFP Module LC.SX, AXIS T8613 SFP Module 1000BASE-T, AXIS T99 Illuminator Bracket Kit A For more accessories, see <a href="http://www.axis.com">www.axis.com</a>

<b>Video management software</b>	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available on <a href="http://www.axis.com/vms">www.axis.com/vms</a>
<b>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
<b>Warranty</b>	Axis 3-year warranty and AXIS Extended Warranty option, see <a href="http://www.axis.com/warranty">www.axis.com/warranty</a>
<b>Export control</b>	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](http://www.openssl.org)), and cryptographic software written by Eric Young ([eyay@cryptsoft.com](mailto:eyay@cryptsoft.com)).*
- d. *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.*
- e. *The values shown are based on results from actual wind tunnel testing. For drag force calculations, use maximum effective projected area (EPA).*
- f. *Excluding front window.*
- g. *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:**

[www.axis.com/environmental-responsibility](http://www.axis.com/environmental-responsibility)