AXIS Q8742-E Bispectral PTZ Network Camera
Thermal and visual surveillance in one

AXIS Q8742-E Bispectral PTZ Network Camera is a high-end combination of thermal camera with outstanding contrast for reliable detection and verification around-the-clock and in all weather and light conditions and an exceptionally light-sensitive visual camera for identification purposes. Designed for continuous, jerk-free pan and tilt movements. Easy to control and install with one IP address and multiple mounting options. The camera offers a tilt view of 45° above the horizon, and when column-mounted, it enables 360° unobstructed field of view.

> Reliable detection, fast verification and identification
> Bispectral video streams
> Easy to install with one IP address
> Responsive positioning 360° endless pan and 135° from ground to sky
> Long-distance network connection
**AXIS Q8742-E Bispectral PTZ Network Camera**

**Models**
- AXIS Q8742-E 35 mm 8.3/30 fps
- AXIS Q8742-E, Zoom 8.3/30 fps

**Camera**

**Image sensor**
- CMOS: 1/2.8" progressive scan, Uncooled microbolometer 640x480 pixels, Pixel size: 17 μm

**Lens**
- F4.4 - F1.6 with 65°-2° field of view
- Vertical field of view: 39° - 12°
- Auto-focus, 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: 35-105 mm, F1.6
- Near focus distance: 22-195 m (72-640 ft)
- Manual focus distance: 7 m (23 ft)
- Horizontal field of view: 18° - 6°

**Day and night**
- Automatically removable infrared-cut filter in night mode

**Minimum illumination**
- 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 < 50 mK

**Shutter time**
- 1/66500 to 2 s

**Pan/Tilt/Zoom**
- Pan: 360° endless, 0.05° - 120°/s
- Tilt: -90° to +45°, 0.05° - 45°/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 display, joystick control, dynamic load balancing
- Visual: 30x optical zoom and 12x digital zoom, total 360x zoom, focus recall
- Thermal: Zoom: 3x thermal zoom and 4x digital zoom, total 12x zoom

**Video**

**Video compression**
- H.264(MPEG-4 Part 10/AVC), Baseline, Main and High Profiles Motion JPEG

**Resolution**
- 1920x1080 (HDTV 1080p) to 320x180
- Thermal: Sensor is 640x480. Image can be scaled up to 800x600 (S-VGA)

**Frame rate**
- Up to 25/30 fps (50/60 Hz) in HDTV 1080p
- Thermal: Up to 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**
- 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 encryption, network fail-over link
- IEEE 802.1X network access control
- Digest authentication, use access log, centralized certificate management

**Supported protocols**
- IPv4/IPv6, HTTP, HTTPS, SSL/TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP, SNMP v1/v2c/v3 (MB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, NTCIP

**System integration**

**Application**
- Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com

**Programming Interface**
- ONVIF® Profile S and ONVIF® Profile G, specification at onvif.org

**Analytics**
- Included
- AXIS Video Motion Detection, AXIS Fence Guard, AXIS Motion Guard

**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 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: Glass, Thermal: Germanium
- Long-life silicone wiper
- Weathershield: High-impact UV-stabilized thermoplastic

**Sustainability**
- PVC free

**Memory**
- 512 MB RAM, 512 MB Flash

**Power**
- 20-28 V AC/DC, typical 16 W, max 204 W
- Power loss recovery: 15s
- 2200V surge protection, voltage transient protection
- I/O connector: output power 12 V DC, max load 50 mA

**Connectors**
- SFP slot (SFP module not included)
- RJ45 10BASE-T/100BASE-TX/1000BASE-T network connector
- 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)
- 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), 45 m/s (100 mph) without weathershield
- Maximum effective projected area (EPA): 0.138 m²

**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 62234-6
- Environment
- Safety
- IEC/EN/UL 60950-1, IEC/EN/UL 60950-22, IS 13252

**Dimensions**
- 245 x 360 x 582 mm (9 x 14 x 23 in)

**Weight**
- 35 mm: 14.7 kg (32.4 lb)
- Zoom: 15.2 kg (33.5 lb)
Included accessories
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 m², AXIS T8611 SFP Module
LC/LX, AXIS T8612 SFP Module LC/SC, 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 m² (72 ft²) 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