

## AXIS Q8742-E

### 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

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| <b>Models</b>               | AXIS Q8742-E 35 mm 8.3/30 fps<br>AXIS Q8742-E, Zoom 8.3/30 fps  |
| <b>Camera</b>               |   |
| <b>Image sensor</b>         | <b>Visual:</b> 1/2.8" progressive scan CMOS<br><b>Thermal:</b> Uncooled micro bolometer 640x480 pixels, Pixel size: 17µm  |
| <b>Lens</b>                 | <b>Visual:</b> 4.3–129 mm, F1.6–4.7<br>Horizontal field of view: 65.6°–2°<br>Vertical field of view: 39°–1.2°<br>Autofocus, auto-iris<br><b>Thermal:</b><br><b>35 mm:</b><br>Athermalized 35 mm, F1.2<br>Near focus distance: 33 m (108 ft)<br>Horizontal field of view: 17°<br>Vertical field of view: 12.8°<br><b>Zoom:</b><br>Athermalized 35–105 mm, F1.6<br>Near focus distance: 22–195 m (72–640 ft)<br>Near manual focus distance: 7 m (23 ft)<br>Horizontal field of view: 18°–6°<br>Vertical field of view: 13.5°–4.5° |
| <b>Day and night</b>        | <b>Visual:</b> Automatically removable infrared-cut filter in night mode  |
| <b>Minimum illumination</b> | <b>Visual:</b><br>Color: 0.2 lux at 30 IRE F1.6<br>B/W: 0.01 lux at 30 IRE F1.6<br>Color: 0.25 lux at 50 IRE F1.6<br>B/W: 0.02 lux at 50 IRE F1.6   |
| <b>Sensitivity</b>          | <b>Thermal:</b> NETD < 50 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<br><b>Tilt:</b> –90° to +45°, 0.05°–65°/s<br>Jerk-free movements at low speed: ±0.01°/s (at 0.05°/s)<br>Preset accuracy: 0.05°<br>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><br><b>Visual:</b> 30x optical zoom and 12x digital zoom, total 360x zoom, Focus recall<br><b>Thermal:</b><br><b>Zoom:</b> 3x thermal zoom and 4x digital zoom, total 12x zoom      |
| <b>Video</b>                |   |
| <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<br><b>Thermal:</b> Sensor is 640x480. Image can be scaled up to 800x600 (SVGA)   |
| <b>Frame rate</b>           | <b>Visual:</b> Up to 25/30 fps (50/60 Hz) in HDTV 1080p<br><b>Thermal:</b> Up to 8.3 fps and 30 fps   |
| <b>Video streaming</b>      | Axis Zipstream technology in H.264<br>Controllable frame rate and bandwidth<br>VBR/MBR H.264<br>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<br><b>Thermal:</b> Compression, brightness, sharpness, contrast, local contrast, exposure control, exposure zones, text and image overlay   |
| <b>Network</b>              |   |
| <b>Security</b>             | Password protection, IP address filtering, HTTPS <sup>c</sup> encryption, network fail-over link <sup>e</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  |

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| <b>System integration</b>                |   |
| <b>Application Programming Interface</b> | Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="https://axis.com">axis.com</a><br>AXIS Video Hosting System (AVHS)<br>ONVIF <sup>®</sup> Profile S and ONVIF <sup>®</sup> Profile G, specification at <a href="https://onvif.org">onvif.org</a>  |
| <b>Analytics</b>                         | <b>Included</b><br>AXIS Video Motion Detection<br><b>Supported</b><br>AXIS Perimeter Defender, AXIS Camera Application Platform enabling installation of third-party applications, <a href="https://axis.com/acap">seeaxis.com/acap</a>   |
| <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<br>Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email<br>Pre- and post-alarm video or image buffering for recording or upload<br>Notification: email, HTTP, HTTPS, TCP and SNMP trap<br>PTZ: PTZ preset, start/stop guard tour<br>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<br>Color: white NCS S 1002-B<br>Front window: <b>Visual:</b> Glass, <b>Thermal:</b> Germanium<br>Long-life silicone wiper<br>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<br>Power loss recovery <sup>d</sup><br>TVS 2000V, surge protection, voltage transient protection<br><b>I/O connector:</b> output power 12 V DC, max load 50 mA  |
| <b>Connectors</b>                        | SFP slot (SFP module not included) <sup>e</sup><br>RJ45 10BASE-T/100BASE-TX/1000BASE-T network connector <sup>e</sup><br>Power connector<br>I/O connector: 6-pin terminal block with 4 configurable inputs/outputs  |
| <b>Storage</b>                           | Support for microSD/microSDHC/microSDXC card (included)<br>Support for SD card encryption<br>Support for recording to network-attached storage (NAS)<br>For SD card and NAS recommendations see <a href="https://axis.com">axis.com</a>   |
| <b>Operating conditions</b>              | –50 °C to 55 °C (–58 °F to 131 °F)<br>Maximum (intermittent): 65 °C (149 °F)<br>Arctic Temperature Control: start-up at –40 °C (–40 °F)<br>Humidity: 10–100% RH (condensing)<br><b>Wind load when PTZ operational</b><br>37 m/s (83 mph) <sup>f</sup> , 45 m/s (100 mph) without weathershield<br>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><br>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<br><b>Environment</b><br>IEC/EN 60529 IP66, IEC 62262 IK10 <sup>g</sup> , NEMA 250 Type 4x, ISO 4892–2, IEC 60721–3–4<br><b>Safety</b><br>IEC/EN/UL 60950–1, IEC/EN/UL 60950–22     |
| <b>Dimensions</b>                        | 245 x 360 x 582 mm (9½ x 14 x 23 in)  |
| <b>Weight</b>                            | <b>35 mm:</b> 14.7 kg (32.4 lb)<br><b>Zoom:</b> 15.2 kg (33.5 lb)   |
| <b>Included accessories</b>              | Installation Guide<br>AXIS Surveillance Card 64 GB<br>Connector Kit   |

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|                                  | Torx® T20 bit, Torx® 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>h</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<br>For more accessories, see <a href="http://axis.com">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://axis.com/vms">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://axis.com/warranty">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 ([ey@cryptsoft.com](mailto:ey@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:

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