

AXIS Q87-E Dual PTZ Network Camera Series

Thermal detection, HDTV and PTZ surveillance all in one.



- > HDTV image quality
- > Thermal imaging
- > H.264 video streams
- > IP66-rated
- > Continuous rotation, endless 360° pan

AXIS Q87-E Dual PTZ Network Camera Series is ideal for mission-critical surveillance scenarios that demand 24-hour monitoring of restricted areas. The cameras offer pan/tilt flexibility and simultaneous video streams from a visual camera and a thermal camera, and allow detection, recognition and identification from one single unit.

The IP66-rated, outdoor-ready AXIS Q87-E Network Camera Series comprises of AXIS Q8721-E and AXIS Q8722-E. AXIS Q8721-E—which provides a visual camera with 10x optical zoom and autofocus, and a thermal camera with 384x288 resolution—is mounted on a motor that allows the entire unit to tilt and pan. AXIS Q8722-E provides the same features but with a thermal camera that offers VGA 640x480 resolution. The models are connected to the network using one Ethernet cable.

AXIS Q87-E models can pan 360° endlessly and tilt between -45° to +20° with a preset accuracy of 0.02°. The operating temperature ranges between -30 °C to 45 °C (-22 °F to 113 °F).

The thermal camera can achieve higher detection accuracy than a visual camera since a thermal camera detects an object or a person hidden in a shadow or in a dark area. It can also function in complete darkness and adverse weather conditions. However, the visual camera allows for recognition possibilities and at night, it can benefit from optional PT IR Illuminator kit A for better identification. The combined visual/thermal camera units provide a powerful surveillance solution.





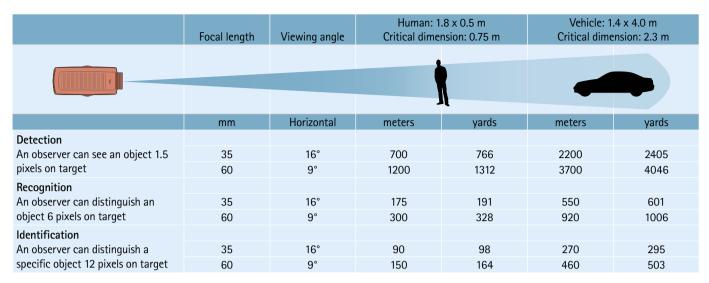
Technical Specifications – AXIS Q87-E Dual PTZ Network Camera Series

| Camera | | Application | Open API for software i |
|-------------------------|--|--------------------------|--|
| Models | AXIS Q8721-E 35 mm and AXIS Q8721-E 60 mm: include AXIS Q1755 (visual camera) and AXIS Q1921 (thermal camera) AXIS Q8722-E 35 mm and AXIS Q8722-E 60 mm: include AXIS | Programming Interface | AXIS Camera Application available at www.axis.completerface specifications |
| lmage sensor | Q1755 (visual camera) and AXIS Q1922 (thermal camera) Visual camera: 1/3" progressive scan CMOS 2 megapixel Thermal camera: Uncooled micro bolometer 384x288 pixels | Intelligent video | Video motion detection Support for AXIS Came Visual camera: Gatekee |
| | (AXIS Q8721-E) and 640x480 pixels (AXIS Q8722-E) | Event triggers | Intelligent video and ex |
| Lens Detection range | Visual camera: f=5.1 - 51 mm, F1.8 - 2.1, autofocus, automatic day/night Horizontal angle of view: 48.1° - 5.1° M37x0.75 mounting thread for optional lens adaptor | Event actions | File upload: FTP, HTTP, r Notification: email, HTT External output activat Video recording to edge Pre- and post-alarm vid |
| | Thermal camera: NETD < 100 mK | Data Streaming | · · · · · · · · · · · · · · · · · · · |
| Sensitivity | | General | |
| Minimum Illumination | Visual camera: Color: 2 lux at 30 IRE, F1.8 B/W: 0.2 lux at 30 IRE, F1.8 | Casing | Aluminum casing, sunsh |
| Shutter time | Visual camera: 1/10000 s to 1/2 s | | Color: RAL 9002 |
| Zoom | Visual camera: 10x optical and 12x digital, total 120x | Memory | Visual camera: 256 MB |
| Video | | • | Thermal camera: 128 M |
| Video compression | H.264 (MPEG-4 Part 10/AVC) Motion JPEG | Pan/Tilt | Pan: 360° endless, 0.1° Tilt: -45° to +20°, 0.1° - |
| Resolutions | AXIS Q8721-E: Visual camera with HDTV 1080i 1920x1080, HDTV 720p 1280x720; and Thermal camera with 384x288 sensor, image can be scaled up to 768x576 and to standard VGA resolution AXIS Q8722-E: Visual camera with HDTV 1080i 1920x1080, HDTV 720p 1280x720; and Thermal camera with 640x480 sensor, image can be scaled up to 800x600 (D1) resolution | Protocol | Pelco D |
| | | Preset accuracy | 0.02° |
| | | Power | AXIS Q87-E: 24 V AC 50 (sold separately) 230/120 sensor |
| | Visual camera: 30/25 fps in all resolutions and video compression Thermal camera: Up to 30 fps within EU, Norway, Switzerland, Canada, USA, Japan, Australia, New Zealand Up to 8.3 fps in other countries* *Frame rate above 9 fps may be subject to export control | Edge storage | SD/SDHC/SDXC slot sup not included) Support for recording to or file server) |
| | | Environment | Indoor/outdoor |
| Video streaming | regulations Visual camera: Multiple, individually configurable streams in | Operating conditions | -30 °C to 45 °C (-22 °F Humidity 10 - 100% RF |
| | H.264 and Motion JPEG Thermal camera: At least 1 stream in H.264 and Motion JPEG: simultaneous, individually configured streams in max. resolution at 30 fps Controllable frame rate and bandwidth VBR/CBR H.264 | Approvals | EN 55022 Class A, EN 5 FCC Part 15 Subpart B (C-tick AS/NZS CISPR 22 EN 60950-1, EN 60950 Power supply (sold sepa |
| Image settings | Visual camera: Compression, brightness, sharpness, white balance, exposure control, backlight compensation, rotation, mirroring of images, text and image overlay, privacy mask Thermal camera: Compression, brightness, exposure control, rotation, mirroring of images, text and image overlay, privacy | | 61000-6-1, EN 61000- FCC Part 15 Subpart B (C-tick AS/NZS CISPR 22 EN 60950-1, EN 60950 |
| | | Weight | AXIS Q87-E: 28.5 kg (6 |
| | mask, multiple palettes | Included | Installation Guides, Inst |
| Network | | accessories | Windows decoder 1-use |
| Security | Password protection, IP address filtering, HTTPS encryption**, IEEE 802.1X network access control**, digest authentication, user access log | | |
| Supported protocols | IPv4/v6, HTTP, HTTPS**, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP™, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, | | |

^{**}This product includes software developed by the OpenSSL. Project for use in the OpenSSL Toolkit. (www.openssl.org)

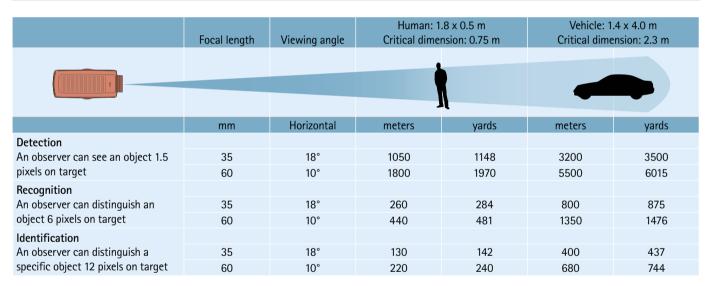
| Application Programming Interface | Open API for software integration, including VAPIX® and AXIS Camera Application Platform Axis Communications, available at www.axis.com Interface specifications available at www.axis.com |
|---|--|
| Intelligent video | Video motion detection, active tampering alarm, Support for AXIS Camera Application Platform Visual camera: Gatekeeper |
| Event triggers | Intelligent video and external input |
| Event actions | File upload: FTP, HTTP, network share and email Notification: email, HTTP and TCP External output activation Video recording to edge storage Pre- and post-alarm video buffering |
| Data Streaming | Event data |
| General | |
| Casing | Aluminum casing, sunshield ABS PMMA IP66-rated Color: RAL 9002 |
| Memory | Visual camera: 256 MB RAM, 128 MB Flash Thermal camera: 128 MB RAM, 128 MB Flash |
| Pan/Tilt | Pan: 360° endless, 0.1° – 20°/s Tilt: -45° to +20°, 0.1° – 20°/s |
| Protocol | Pelco D |
| Preset accuracy | 0.02° |
| Power | AXIS Q87–E: 24V AC 50/60 Hz, 200W provided by power supply (sold separately) $230/120\text{V}$ AC 50/60 Hz with built-in day/night sensor |
| Edge storage | SD/SDHC/SDXC slot supporting memory cards up to 64 GB (card not included) Support for recording to network share (network-attached storage or file server) |
| Environment | Indoor/outdoor |
| Operating conditions | -30 °C to 45 °C (-22 °F to 113 °F) Humidity 10 – 100% RH (condensing) |
| Approvals | EN 55022 Class A, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, C-tick AS/NZS CISPR 22, EN 61000-3-2, EN 61000-3-3, EN 60950-1, EN 60950-22, IEC/EN 60529 IP66 Power supply (sold separately): EN 55022 Class A, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, C-tick AS/NZS CISPR 22, EN 61000-3-2, EN 61000-3-3, EN 60950-1, EN 60950-22, IEC/EN 60529 IP66 |
| Weight | AXIS Q87-E: 28.5 kg (63 lb.) (IR LED excluded) |
| Included accessories | Installation Guides, Installation and Management Software CD, Windows decoder 1-user license |

Wide range coverage for AXIS Q1921



Calculated with Johnson's criteria. The ranges vary in different weather conditions. Visit www.axis.com for more information.

Wide range coverage for AXIS Q1922



Calculated with Johnson's criteria. The ranges vary in different weather conditions. Visit www.axis.com for more information.

Technical Specifications - PT IR Illuminator kit A (sold separately)

| General | |
|-----------------------|--|
| Models | IR-LED 10° angle IR-LED 50° angle |
| Supported cameras | AXIS Q8721-E Dual PTZ Network Camera AXIS Q8722-E Dual PTZ Network Camera |
| Power | 12-24 V AC/DC, 35 W Cable length 70 cm (2.3 ft.) |
| Туре | 850 nm semi-covert |
| Environment | IP66-rated |
| Control technology | Power level, photocell sensitivity, telemetry link for remote activation (if required) |
| Angle | 10° to 50° |

| Distance | IR-LED 10°: 100 m (328 ft.) IR-LED 50°: 50 m (164 ft.) |
|----------------------|---|
| Operating conditions | -50 °C to 50 °C (-58 °F to 122 °F) |
| Approvals | EN 62471 (risk group 1), EN 55022 Class A, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, C-tick AS/NZS CISPR 22, EN 60950-1, EN 60950-22, IEC/EN 60529 IP66 |
| Weight per unit | 1.4 kg (3.1 lb.) |
| Included accessories | U-bracket, in-built adjustable photocell |
| Dimensions | 180 x 135 x 67 mm (7" x 5.2" x 2.6") |

More information is available at www.axis.com

