

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 Q8721-E Network Camera provides a visual camera with 10x optical zoom and autofocus, and a thermal camera with 384x288 resolution. It is mounted on a motor that allows the entire unit to tilt and pan. The model is 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.



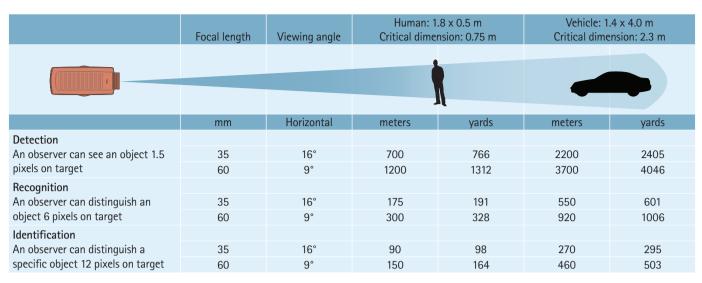


Technical Specifications – AXIS Q87-E Dual PTZ Network Cameras

Camera		System integrati	ion
Models	AXIS Q8721–E 35 mm 8,3 fps, AXIS Q8721–E 35 mm 30 fps, AXIS Q8721–E 60 mm 8,3 fps, AXIS Q8721–E 60 mm 30 fps: includes AXIS Q1755 (visual camera) and AXIS Q1921 (thermal camera)	Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform from Axis Communications; Interface specifications available at www.axis.com
Image sensor	Visual camera: 1/3" progressive scan CMOS 2 megapixel Thermal camera: Uncooled micro bolometer 384x288 pixels	Intelligent video	Video motion detection, active tampering alarm Support for AXIS Camera Application Platform Visual camera: Gatekeeper
Lens	Visual camera: f=5.1 - 51 mm, F1.8 - 2.1, autofocus, automatic	Event triggers	Intelligent video and external input
	day/night Horizontal angle of view: 48.1° – 5.1° M37x0.75 mounting thread for optional lens adaptor	Event actions	File upload: FTP, HTTP, network share and email Notification: email, HTTP and TCP External output activation
Detection range	See tables below		Video to edge storage
Sensitivity	Thermal camera: NETD < 100 mK		Pre- and post-alarm video buffering
Minimum Illumination	Visual camera: Color: 2 lux at 30 IRE, F1.8 B/W: 0.2 lux at 30 IRE, F1.8	Data Streaming General	Event data
Shutter time	Visual camera: 1/10000 s to 1/2 s	Memory	Visual camera: 256 MB RAM, 128 MB Flash
Zoom	Visual camera: 10x optical and 12x digital, total 120x		Thermal camera: 128 MB RAM, 128 MB Flash
Video	U. 0. (MDT0 + D + + 0/M/0)	Pan/Tilt	Pan: 360° endless, 0.1° – 20°/s Tilt: 45° to -20°, 0.1° – 20°/s
Video compression	H.264 (MPEG-4 Part 10/AVC) Motion JPEG	Protocol	Pelco D
Resolutions	AXIS Q8721–E: Visual camera with HDTV 1080i 1920x1080, HDTV	Preset accuracy	0.02°
	720p 1280x720; and Thermal camera with 384x288 sensor, image can be scaled up to 768x576 and to standard VGA resolution		Aluminum casing, sunshield ABS PMMA IP66-rated
Frame rate	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*	Power	Color: RAL 9002 AXIS Q87-E: 24 V AC 50/60 Hz, 200 W provided by power supply (sold separately) 230/120 V AC 50/60 Hz with built-in day/night sensor
Video streaming	*Frame rate above 9 fps may be subject to export control regulations Visual camera: Multiple, individually configurable streams in	Edge storage	SD/SDHC memory card slot (card not included) Support for recording to network share (network-attached storag or file server)
J	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	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,
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 mask, multiple palettes		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,
Network		Moight	EN 60950-1, EN 60950-22, IEC/EN 60529 IP66
Security	Password protection, IP address filtering, HTTPS encryption**, IEEE 802.1X network access control**, digest authentication, user access log	Weight Included accessories	AXIS Q87-E: 28.5 kg (63 lb.) (IR LED excluded) Installation Guides, Installation and Management Software CD, Windows decoder 1-user license
Supported protocols	IPv4/v6, HTTP, HTTPS**, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP™, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS		

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

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.

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

General	
Models	IR-LED 10° angle IR-LED 50° angle
Supported cameras	AXIS Q8721-E
Power	12–24 V AC/DC, 35 W Cable length 2.5 m (8 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

