

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

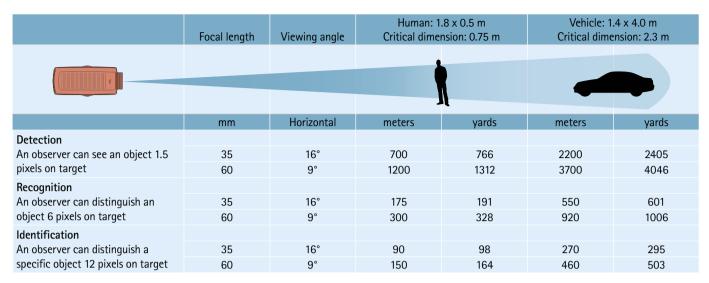
Camera		System integration		
Models	AXIS Q8721–E 35 mm and AXIS Q8721–E 60 mm: include AXIS Q1755 (visual camera) and AXIS Q1921 (thermal camera) AXIS Q8722–E 35 mm and AXIS Q8722–E 60 mm: include AXIS Q1755 (visual camera) and AXIS Q1922 (thermal camera)	Application Programming Interface	Open API for software integration, AXIS Camera Application Platform available at www.axis.com Interface specifications available a	
lmage sensor	Visual camera: 1/3" progressive scan CMOS 2 megapixel Thermal camera: Uncooled micro bolometer 384x288 pixels (AXIS Q8721-E) and 640x480 pixels (AXIS Q8722-E)	Intelligent video	Video motion detection, active tan Support for AXIS Camera Applicati Visual camera: Gatekeeper	
Lens	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 triggers	Intelligent video and external inpu	
		Event actions	File upload: FTP, HTTP, network sha Notification: email, HTTP and TCP External output activation	
Detection range	-		Video recording to edge storage Pre- and post-alarm video bufferin	
Sensitivity	Thermal camera: NETD < 100 mK	Data Streaming	•	
Minimum Illumination	Visual camera: Color: 2 lux at 30 IRE, F1.8 B/W: 0.2 lux at 30 IRE, F1.8	General	Event data	
Shutter time	Visual camera: 1/10000 s to 1/2 s	Casing	Aluminum casing, sunshield ABS PN IP66-rated	
Zoom	Visual camera: 10x optical and 12x digital, total 120x	casing		
Video			Color: RAL 9002	
Video compression	H.264 (MPEG-4 Part 10/AVC) Motion JPEG	Memory	Visual camera: 256 MB RAM, 128 Thermal camera: 128 MB RAM, 12	
Resolutions Frame rate	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 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 regulations	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: 24 V AC 50/60 Hz, 200 (sold separately) 230/120 V AC 50/60	
Traine race		Edge storage	sensor SD/SDHC/SDXC slot supporting me not included) Support for recording to network s or file server)	
Video streaming	Visual camera: Multiple, individually configurable streams in 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 (condension	
		Approvals	EN 55022 Class A, EN 55024, EN 6 FCC Part 15 Subpart B Class A, ICE C-tick AS/NZS CISPR 22, EN 61000 EN 60950-1, EN 60950-22, IEC/EN	
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		Power supply (sold separately): El 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICE C-tick AS/NZS CISPR 22, EN 61000 EN 60950-1, EN 60950-22, IEC/EN	
	mask, multiple palettes	Weight	AXIS Q87-E: 28.5 kg (63 lb.) (IR LE	
Network		Included _.	Installation Guides, Installation and	
Security	Password protection, IP address filtering, HTTPS encryption**, IEEE 802.1X network access control**, digest authentication, user access log	accessories	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, BTS, PTP, TCP, ICMP, PTCP, ICMP, DLCP, APP, SOCKS			

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

NTP, RTSP, RTP, TCP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS

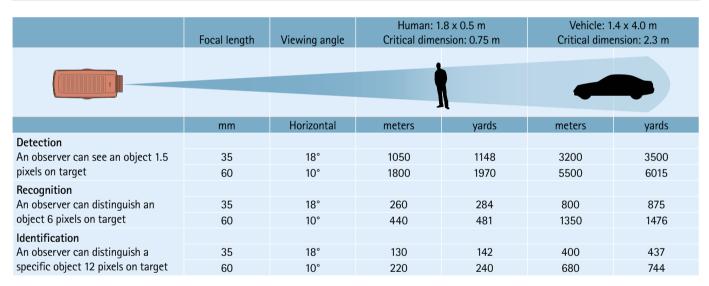
System integration				
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform Axis Communications, available at www.axis.com Interface specifications available at www.axis.com			
Intelligent video	Video motion detection, active tampering 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: 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			
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

