

AXIS Q8641-E PT Thermal Network Camera

Unobstructed views and long-distance detection

AXIS Q8641-E PT Thermal Network Camera offers outstanding thermal contrast and 10° field of view, which together with analytics, enables long-range detection and immediate visual confirmation for the operator. Highly responsive and reliable positioning camera, designed for continuous and jerk-free pan and tilt movements (360° endless and 135° from ground to sky). When column-mounted, it enables 360° unobstructed field of view, covering a wide area and reducing the cost for additional cameras. AXIS Q8641-E provides 384x288 thermal resolution, Zipstream and electronic image stabilization. Features both RJ45 and SFP interfaces, enabling a long-distance fiber connection with a failover network link.

- > [Reliable thermal detection](#)
- > [Outstanding thermal contrast – 384x288 resolution](#)
- > [Responsive positioning with quick, smooth pan and tilt capabilities](#)
- > [Save bandwidth with Zipstream](#)
- > [Electronic image stabilization](#)



AXIS Q8641-E PT Thermal Network Camera

Models	AXIS Q8641-E 35 mm 30 fps 24 V AXIS Q8641-E 35 mm 8.3 fps 24 V	Casing	IP66- and NEMA 4X-rated powder coated aluminum Color: white NCS S 1002-B Front window: germanium Sunshield: high-impact UV-stabilized thermoplastic
Camera		Sustainability	PVC free
Image sensor	Uncooled Micro bolometer 384x288, pixel size: 17 µm Spectral range: 8-14 µm	Memory	512 MB RAM, 256 MB Flash
Lens	Athermalized Horizontal field of view: 10.7° view, F1.2	Power	24 V AC/DC Typical 16 W, max 182 W Power loss recovery ^d , TVS 2 kV surge protection
Sensitivity	NETD < 70 mK	I/O connector	Output power 12 V DC, max load 50 mA
Pan/Tilt	Pan: 360° endless, 0.05°–120°/s Tilt: –90 to +45°, 0.05°–60°/s Jerk-free movements at low speed: $\sigma < 0.01^\circ/s$ (at 0.05°/s) De-icing control ^a Preset accuracy: 0.05° 256 preset positions, guard tour, control queue, on-screen directional indicator, de-icing control, dynamic load balancing ^b	Connectors	SFP slot (SFP module not included) ^e RJ45 10BASE-T/100BASE-TX/1000BASE-T network connector ^e Power connector I/O connector: 6-pin terminal block with 4 configurable inputs/outputs
Video		Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG	Operating conditions	–40 °C to 60 °C (–40 °F to 140 °F) Humidity 10–100% RH (condensing) Wind load when PT operational 47 m/s (106 mph). Maximum effective projected area (EPA): 0.105 m ²
Resolution	Sensor is 384x288. Image can be scaled up to 768x576.	Storage conditions	–40 °C to 65 °C (–40 °F to 149 °F)
Frame rate	Up to 8.3 fps and 30 fps	Approvals	EMC EN 55032 Class A, EN 55024, EN 61000-6-1, EN 61000-6-2, EN 61000-3-2, EN 61000-3-3, 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 Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22 Environment IEC/EN 60529 IP66, NEMA 250 Type 4X, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-27 Network NIST SP500-267
Video streaming	At least three H.264 and Motion JPEG streams, simultaneous and individually configured in max. resolution in full frame rate Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/ABR/MBR H.264	Dimensions	557 x 229 x 289 mm (22 x 9 x 11 in)
Image settings	Compression, brightness, sharpness, contrast, exposure zone, text and image overlay, mirroring of images, electronic image stabilization, multiple palettes	Weight	12 kg (26.5 lb)
Network		Included accessories	Installation guide, Windows® decoder 1-user license Power connector, I/O connector, Torx® bits T20 and T30
Security	Password protection, IP address filtering, HTTPSC encryption, network fail-over link ^c , IEEE 802.1x (EAP-TLS) ^c network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware	Optional accessories	AXIS T94J01A Wall Mount, AXIS T94N01G Pole Mount, AXIS T95A64 Corner Bracket, AXIS Cable 24 V DC/24–240 V AC 22 m ^f , AXIS T8611 SFP Module LC.LX, AXIS T8612 SFP Module LC.SX, AXIS T8613 SFP Module 1000BASE-T For more accessories, see axis.com
Supported protocols	IPv4, IPv6 USGv6, HTTP, HTTPS ^c , SSL/TLS ^c , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SFTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, LLDP, MQTT v3.1.1	Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at axis.com/vms
System integration		Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com One-click cloud connection ONVIF® Profile G and ONVIF® Profile S, specification at onvif.org	Warranty	5-year warranty, see axis.com/warranty
Event triggers	Detectors: live stream accessed, video motion detection, shock detection Hardware: network, temperature Input signal: digital input, manual trigger, virtual inputs PTZ: moving, preset reached, ready Storage: disruption, recording System: system ready Time: recurrence, use schedule	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.
Event actions	Video recording to edge storage, pre- and post-alarm video buffering, external output activation, send SNMP trap, overlay text PTZ control: preset position, guard tour File upload: FTP, HTTP, HTTPS, SFTP, network share, email Notification: HTTP, HTTPS, TCP, email		
Data streaming	Event data		
Built-in installation aids	Pixel counter		
Analytics			
Applications	Included AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, shock detection Supported AXIS Perimeter Defender Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap		
General		Environmental responsibility:	

- Internal heaters to defrost ice build-up. Automatic for camera and activated by HTTP API (VAPIX) for positioning unit.
- 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.
- This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (ey@cryptsoft.com).
- IP data and home position retained, and guard tour and other events resumed.
- 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 failover link.
- When using the 22 m (72 ft) AXIS Cable 24 V DC/24–240 V AC, a power supply capable of delivering 220 W is required to compensate for the power loss in the cable.

For more information please contact:



BOCK OPTRONICS INC.

14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

Tel: (416) 674-2804
sales@bockoptronics.ca
www.bockoptronics.ca

AXIS Q8752-E Bispectral PTZ Camera

Thermal detection and visual verification

AXIS Q8752-E offers reliable thermal detection and visual verification in one bispectral camera. It features 360° infinite pan for fast repositioning and continuous tracking of objects. Featuring Electronic Image Stabilization (EIS) on both channels it ensures smooth video. Forensic WDR and Lightfinder 2.0 guarantees images with saturated colors and sharp details of moving objects even in challenging light or near darkness. This robust camera is packed with advanced security functionality. Built on a powerful analytics platform, it's easy to add custom-made 3rd party analytics. Furthermore, it's possible to connect AXIS Q8752-E using fiber optic cabling to overcome distance and bandwidth limitations.

- > [Thermal and visual camera in one](#)
- > [360° infinite pan](#)
- > [Dual Electronic Image Stabilization](#)
- > [Signed firmware, secure boot, and TPM 2.0](#)
- > [Thermal palettes](#)



AXIS Q8752-E Bispectral PTZ Camera

Models	AXIS Q8752-E 35 mm 8.3/30 fps AXIS Q8752-E Zoom 8.3/30 fps	Configurable bit rate
Camera		Audio input/output External microphone input or line input
Image sensor	Visual: 1/2.8" progressive scan CMOS Thermal: Uncooled microbolometer 640x480 pixels, pixel size: 17 µm. Spectral range: 8–14 µm	Network
Lens	Visual: Varifocal, 4.3–137.6 mm, F1.4–4.0 Horizontal field of view: 58.5°–2.4° Vertical field of view: 35°–1.3° Autofocus, 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: Athermalized 35–105 mm, F1.6 Near focus distance: 22–195 m (72–640 ft) Near manual focus distance: 7 m (23 ft) Horizontal field of view: 18°–6° Vertical field of view: 13.5°–4.5°	Security Password protection, IP address filtering, HTTPS ^c encryption, IEEE 802.1x (EAP-TLS) ^c network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware, secure boot, protection of cryptographic keys with FIPS 140-2 certified TPM 2.0 module, Axis Edge Vault with Axis device ID
Day and night	Visual: Automatically removable infrared-cut filter	Supported protocols IPv4, IPv6, USGv6, ICMPv4/ICMPv6, HTTP, HTTPS ^c , HTTP/2, TLS ^c , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP [®] , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, NTCIP, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)
Minimum illumination	Visual: Color: 0.09 lux at 30 IRE, F1.4 B/W: 0.008 lux at 30 IRE, F1.4 Color: 0.06 lux at 50 IRE, F1.4 B/W: 0.01 lux at 50 IRE, F1.4	System integration
Sensitivity	Thermal: NETD < 50 mK	Application Programming Interface Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at axis.com ONVIF [®] Profile G, ONVIF [®] Profile S, and ONVIF [®] Profile T, specification at onvif.org
Shutter speed	Visual: 1/66500 s to 2 s	Event conditions Device status: above operating temperature, above or below operating temperature, below operating temperature, IP address removed, network lost, new IP address, shock detected, ring power overcurrent protection, storage failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption I/O: digital input, manual trigger, virtual input MQTT subscribe PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready Scheduled and recurring: scheduled event Video: average bitrate degradation, day-night mode, live stream open, tampering
Pan/Tilt/Zoom	Pan: 360° endless, 0.05°–120°/s Tilt: -90° to +45°, 0.05°–65°/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 directional indicator, de-icing control ^a , dynamic load balancing ^b Visual: 32x optical zoom, 12x digital zoom, total 384x zoom, focus recall Thermal: Zoom: 3x thermal zoom and 4x digital zoom, total 12x zoom	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: PTZ preset, start/stop guard tour Overlay text, external output activation, wiper sequence, washer sequence, zoom preset, day/night mode MQTT publish
System on chip (SoC)		Data streaming Event data
Model	ARTPEC-7	Built-in installation aids Pixel counter, focus assistant
Video		Analytics
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	Applications Included AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, Orientation AID PTZ, audio detection, advanced gatekeeper Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
Resolution	Visual: 1920x1080 HDTV 1080p to 320x180 Thermal: Sensor is 640x480. Image can be scaled up to 800x600 (SVGA)	General
Frame rate	Visual: Up to 50/60 fps (50/60 Hz) in HDTV 1080p Thermal: Up to 8.3 fps and 30 fps	Casing IP66-, NEMA 4X- and IK10-rated ⁹ powder coated aluminum Color: white NCS S 1002-B Front window: visual: glass, thermal: germanium Long-life silicone wiper Weathershield: high-impact UV-stabilized thermoplastic
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265	Sustainability PVC free
Image settings	Visual: Saturation, contrast, brightness, sharpness, Forensic WDR: up to 120 dB depending on scene, white balance, day/night threshold, tone mapping, exposure control, exposure zones, defogging, compression, dynamic text and image overlay, 32 individual polygon privacy masks, electronic image stabilization Thermal: Compression, brightness, sharpness, contrast, local contrast, exposure control, exposure zones, text and image overlay, electronic image stabilization	Memory 2048 MB RAM, 512 MB Flash
Audio		Power 20–28 V AC/DC, typical 16 W, max 204 W Power loss recovery ^d TVS 2000V, surge protection, voltage transient protection I/O connector: output power 12 V DC, max load 50 mA
Audio streaming	Audio in, simplex Echo cancellation and noise cancellation	Connectors SFP slot (SFP module not included) ^e Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T I/O: 6-pin 2.5 mm terminal block for 4 configurable inputs/outputs Power: terminal block
Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz	

	Audio (in camera unit): 3.5 mm mic/line in Illumination (in upper part of positioning unit)
Storage	Support for microSD/microSDHC/microSDXC card and encryption Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
Operating conditions	-40 °C to 55 °C (-40 °F to 131 °F) Maximum temperature (intermittent): 65 °C (149 °F) Start-up temperature: -40 °C (-40 °F) Humidity 10-100% RH (condensing) Wind load when PTZ operational 37 m/s (83 mph) ¹ , 45 m/s (100 mph) without weathershield With AXIS PT IR Illuminator Kit C: 40 m/s (90 mph), 52 m/s (116 mph) without weathershield Maximum effective projected area (EPA): 0.138 m ²
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-3(A)/NMB-3(A), CISPR 35, RCM AS/NZS CISPR 32 Class A, EN 50121-4, IEC 62236-4, EN 50498, KC KN32 Class A, KC KN35 Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, CAN/CSA C22.2 No. 62368-1, CAN/CSA-C22.2 No. 60950-22 Environment IEC/EN 60529 IP66, IEC 62262 IK10 ⁹ , NEMA 250 Type 4x, NEMA TS 2 (2.2.7-2.2.9), ISO 21207 (Method B), IEC/EN 60068-2-1, IEC/EN 60068-2-2, IEC 60068-2-6, IEC/EN 60068-2-14, IEC 60068-2-27, IEC/EN 60068-2-78, MIL-STD-810G (Method 501.5, 502.5, 505.5, 506.5, 507.5, 509.5) Network NIST SP500-267
Dimensions	244 x 360 x 582 mm (9.5 x 14 x 23 in)
Weight	35 mm: 14.7 kg (32.4 lb) Zoom: 15.1 kg (33.3 lb)
Included accessories	Installation guide, Windows® decoder 1-user license, connector kit, Torx® T20 bit, Torx® T30 bit, connector guard

Optional accessories	AXIS Surveillance Cards, 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 ^h , AXIS T8611 SFP Module LC.LX, AXIS T8612 SFP Module LC.SX, AXIS T8613 SFP Module 1000BASE-T, AXIS PT IR Illuminator Kit C, AXIS T99 Illuminator Bracket Kit A, Power supply DIN PS24 480 W, AXIS T61 Audio and I/O Interface Series 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, Polish, Traditional Chinese
Warranty	5-year warranty, see axis.com/warranty
Export control	The product contains U.S.-origin controlled technology/compo- nent, the US Export Administration Regulations (EAR) are always applicable to the product. You should comply at all times with all applicable national and international (re-) export control regulations.

- Internal heaters to defrost ice build-up, activated by HTTP API (VAPIX).
- 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.
- This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eyay@cryptsoft.com).
- IP data and home position retained, and guard tour and other events resumed.
- 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.
- The values shown are based on results from actual wind tunnel testing. For drag force calculations, use maximum effective projected area (EPA).
- Excluding front window.
- 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:

axis.com/environmental-responsibility

For more information please contact:



BOCK OPTRONICS INC.
14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

Tel: (416) 674-2804
sales@bockoptronics.ca
www.bockoptronics.ca

AXIS Q8685-LE PTZ Network Camera

For unobstructed view and details day and night

AXIS Q8685-LE is a highly responsive and reliable positioning camera including long-range IR illumination (up to 500 meters/1640 feet without lens). Optical IR-cut and IR-pass filters produce superior image quality even in challenging mixed-light. Designed for continuous and jerk-free pan/tilt movements. When column-mounted, enables a 360° unobstructed view. Provides HDTV 1080p, 30x zoom, WDR - forensic capture, focus recall and Zipstream. Features both RJ45 and SFP interfaces, enabling long-distance fiber connection with a failover network link. Operating in extreme temperatures, withstanding hurricane-strength winds and including an integrated long-life wiper removing raindrops, dirt and grime, AXIS Q8685-LE is ideal for adverse environments.

- > **Responsive positioning with 360° endless pan and 135° tilt from ground to sky**
- > **Forensic details and focus recall**
- > **Long-distance network connection**
- > **Weather protection with remote maintenance (rain and dirt)**
- > **Easy to install**



AXIS Q8685-LE PTZ Network Camera

Models	AXIS Q8685-LE 20-28 V AC/DC	Time: recurrence, use schedule
Camera		Event actions
Image sensor	1/2.8" progressive scan CMOS	Day/night mode, overlay text, video recording to edge storage, pre- and post-alarm video buffering, external output activation, send SNMP trap, illumination, WDR mode, wiper sequence, washer sequence
Lens	Varifocal, 4.3-129 mm, F1.6-4.7 Horizontal field of view: 65.6°-2.0° Vertical field of view: 39.0°-1.2° Autofocus, auto-iris	PTZ control: preset position, guard tour, autotracking File upload: FTP, HTTP, HTTPS, SFTP, network share, email Notification: HTTP, HTTPS, TCP, email
Day and night	Automatic switching from infrared-cut filter to infrared pass filter in night mode	Data streaming
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 B/W: 0 lux with IR illumination	Built-in installation aids
Shutter speed	1/66500 to 2 s	Pixel counter
Pan/Tilt/Zoom	Pan: 360° endless, 0.05°/s to 120°/s Tilt (default): -90° to +45° Tilt (inverted ^g): -45° to +90° Tilt speed: 0.05°/s to 60°/s Jerk-free movements at low speed: ±0.01°/s (at 0.05°/s) Zoom: 30x optical zoom, 12x digital zoom, total 360x zoom Preset accuracy: 0.05° 256 preset positions, guard tour, control queue, on-screen directional indicator, focus window, speed zoom, focus recall, de-icing control ^b , dynamic load balancing ^c	General
Video		Casing
Video compression	H.264 (MPEG-4 Part 10/AVC), Baseline, Main and High Profiles Motion JPEG	IP66-, and NEMA 4X-rated powder coated aluminum Color: white NCS S 1002-B Front window: tempered glass with anti-reflective coating Long-life silicone wiper Sunshield: high-impact UV-stabilized thermoplastic
Resolution	1920x1080 (HDTV 1080p) to 320x180	Sustainability
Frame rate	Up to 25/30 fps (50/60 Hz) in 1080p Up to 50/60 fps (50/60 Hz) in 720p	PVC free
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/MBR H.264	Memory
Image settings	Compression, color, brightness, sharpness, contrast, local contrast, white balance, exposure control, exposure zones, WDR - forensic capture (up to 120 dB), automatic backlight compensation, fine tuning of low-light behavior, manual shutter time, text and image overlay, 20 individual 3D privacy masks, image freeze on PTZ, electronic image stabilization	512 MB RAM, 256 MB Flash
Network		Power
Security	Password protection, IP address filtering, HTTPS ^d encryption, network failover mode ^f , IEEE 802.1X ^d network access control, digest authentication, user access log, centralized certificate management	20-28 V AC/DC Typical: 16 W (without illumination), 64 W (with illumination) Max: 204 W (without illumination), 300 W (with illumination) Power loss recovery ^e TVS 2 kV surge protection
Supported protocols	IPv4/v6, HTTP, HTTPS ^d , SSL/TLS ^d , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTCIP, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, Axis APTP A	I/O connector
System integration		Output voltage: 12 V DC Max load: 50 mA
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform, specifications at www.axis.com ONVIF [®] Profile S and ONVIF [®] Profile G, specification at www.onvif.org	Connectors
Analytics	Included AXIS Video Motion Detection, Shock Detection, Advanced Gatekeeper Supported AXIS Cross Line Detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see www.axis.com/acap	SFP slot (SFP module not included) ^f RJ45 10BASE-T/100BASE-TX network connector ^f Power connector I/O connector: 6-pin terminal block with 4 configurable inputs/outputs
Event triggers	Detectors: live stream accessed, video motion detection, shock detection, day/night mode Hardware: network, temperature Input signal: digital input, manual trigger, virtual inputs PTZ: autotracking, moving, preset reached, ready Storage: disruption, recording System: system ready	IR illumination
		Distance Without diverging lenses 10° x 10°: 500 m (1640 ft) With diverging lenses 35° x 10°: 240 m (787 ft) ^g With diverging lenses 60° x 25°: 135 m (443 ft) With diverging lenses 80° x 30°: 100 m (328 ft) With diverging lenses 120° x 50°: 65 m (213 ft) ^h Power: 96 W Wavelength: 850 nm Illumination intensity adjustable during installation Illumination synchronized with day/night mode
		Storage
		Support for SD/SDHC/SDXC card Support for SD card encryption Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see www.axis.com
		Operating conditions
		Normal: -50 °C to 55 °C (-58 °F to 131 °F) Maximum (intermittent): 65 °C (149 °F) Arctic Temperature Control: start-up at -40 °C (-40 °F) Humidity 10-100% RH (condensing) Wind load when PTZ operational 52 m/s (117 mph), without sunshield 60 m/s (135 mph) ⁱ Maximum effective projected area (EPA): 0.164 m ²
		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 62236-4, KC KN32 Class A, KC KN35 Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IEC/EN 60598-1, IEC/EN 62471 (risk group 2), IS 13252 Environment IEC/EN 60529 IP66, IEC 62262 IK10 ^j , NEMA 250 Type 4x, ISO 4892-2, IEC 60068-2-6, IEC 60068-2-27
		Dimensions
		495 x 411 x 580 mm (19 x 16 x 23 in) ^k Maximum height with 45° tilt upwards: 680 mm (27 in) Maximum width/depth with 360° pan clearance: 633 mm (25 in)
		Weight
		18.4 kg (41 lb) ^k
		Included accessories
		Installation Guide Windows decoder 1-user license

	AXIS PT IR Illuminator Kit C Power connector, I/O connector Torx® bits T20 and T30
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 m ^l AXIS T8611 SFP Module LC.LX AXIS T8612 SFP Module LC.SX AXIS T8613 SFP Module 1000BASE-T Power supply DIN PS24 480 W For more accessories, see www.axis.com
Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available on www.axis.com/techsup/software
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	5-year warranty, see axis.com/warranty

- a. *The camera housing can be mounted in an inverted configuration if tilting directly upwards is preferred.*

- b. *Internal heaters to defrost ice build-up, activated by HTTP API (VAPIX).*
c. *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.*
d. *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 (ey@cryptsoft.com).*
e. *Memory of all IP data and home position retained, and guard tour and other events resumed.*
f. *If the network link is established via both the SFP and RJ45 connectors, the former acts as the primary link and the latter as the failover link.*
g. *35° diverging lenses installed.*
h. *120° diverging lenses as optional accessory.*
i. *The values shown are based on results from actual wind tunnel testing. The maximum wind load when the unit is stationary is not known due to wind speed limit of 60 m/s (135 mph) at the test lab. For drag force calculations, use maximum effective projected area (EPA).*
j. *Excluding front window and illuminators.*
k. *With AXIS PT IR Illuminator Kit C.*
l. *When using the 22 m (72 ft) AXIS Cable 24 V DC/24–240 V AC, a power supply capable of delivering 400 W is required to compensate for the power loss in the cable.*

Environmental responsibility:

axis.com/environmental-responsibility

For more information please contact:



BOCK OPTRONICS INC.
14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

Tel: (416) 674-2804
sales@bockoptronics.ca
www.bockoptronics.ca

AXIS Q8685-E PTZ Network Camera

For unobstructed view and details

AXIS Q8685-E is a highly responsive and reliable positioning camera, designed for continuous and jerk-free pan/tilt movements (360° endless and 135° from ground to sky). When column-mounted, it enables a 360° unobstructed field of view. AXIS Q8685-E provides HDTV 1080p video quality, 30x zoom, WDR - forensic capture, focus recall and Zipstream. It features both RJ45 and SFP interfaces, enabling a long-distance fiber connection with a failover network link. Capable of operating in extreme temperatures, withstanding hurricane-strength winds and including an integrated long-life wiper removing raindrops, dirt and grime, AXIS Q8685-E is ideal for a wide range of adverse environmental conditions.

- > **Responsive positioning with 360° endless pan and 135° tilt from ground to sky**
- > **Forensic details and focus recall**
- > **Long-distance network connection**
- > **Weather protection with remote maintenance (rain and dirt)**
- > **Easy to install**



AXIS Q8685-E PTZ Network Camera

Models	AXIS Q8685-E 20-28 V AC/DC	Time: recurrence, use schedule
Camera		Event actions
Image sensor	1/2.8" progressive scan CMOS	Day/night mode, overlay text, video recording to edge storage, pre- and post-alarm video buffering, external output activation, send SNMP trap, illumination, WDR mode, wiper sequence, washer sequence
Lens	Varifocal, 4.3–129 mm, F1.6–4.7 Horizontal field of view: 65.6°–2.0° Vertical field of view: 39.0°–1.2° Autofocus, auto-iris	PTZ control: preset position, guard tour, autotracking File upload: FTP, HTTP, HTTPS, SFTP, network share, email Notification: HTTP, HTTPS, TCP, email
Day and night	Automatically removable infrared-cut filter in night mode	Data streaming
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	Built-in installation aids
Shutter speed	1/66500 to 2 s	Pixel counter
Pan/Tilt/Zoom	Pan: 360° endless, 0.05°/s to 120°/s Tilt (default): -90° to +45° Tilt (inverted ^g): -45° to +90° Tilt speed: 0.05°/s to 60°/s Jerk-free movements at low speed: ±0.01°/s (at 0.05°/s) Zoom: 30x optical zoom, 12x digital zoom, total 360x zoom Preset accuracy: 0.05° 256 preset positions, guard tour, control queue, on-screen directional indicator, focus window, speed zoom, focus recall, de-icing control ^b , dynamic load balancing ^c	General
Video		Casing
Video compression	H.264 (MPEG-4 Part 10/AVC), Baseline, Main and High Profiles Motion JPEG	IP66-, and NEMA 4X-rated powder coated aluminum Color: white NCS S 1002-B Front window: tempered glass with anti-reflective coating Long-life silicone wiper Sunshield: high-impact UV-stabilized thermoplastic
Resolution	1920x1080 (HDTV 1080p) to 320x180	Sustainability
Frame rate	Up to 25/30 fps (50/60 Hz) in 1080p Up to 50/60 fps (50/60 Hz) in 720p	PVC free
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/MBR H.264	Memory
Image settings	Compression, color, brightness, sharpness, contrast, local contrast, white balance, exposure control, exposure zones, WDR - forensic capture (up to 120 dB), automatic backlight compensation, fine tuning of low-light behavior, manual shutter time, text and image overlay, 20 individual 3D privacy masks, image freeze on PTZ, electronic image stabilization	512 MB RAM, 256 MB Flash
Network		Power
Security	Password protection, IP address filtering, HTTPS ^d encryption, network failover mode ^f , IEEE 802.1X ^d network access control, digest authentication, user access log, centralized certificate management	20–28 V AC/DC Typical: 16 W Max: 204 W Power loss recovery ^e TVS 2 kV surge protection I/O connector
Supported protocols	IPv4/v6, HTTP, HTTPS ^d , SSL/TLS ^d , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, Axis APTP A	Output voltage: 12 V DC Max load: 50 mA
System integration		Connectors
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform, specifications at www.axis.com ONVIF [®] Profile S and ONVIF [®] Profile G, specification at www.onvif.org	SFP slot (SFP module not included) ^f RJ45 10BASE-T/100BASE-TX network connector ^f Power connector I/O connector: 6-pin terminal block with 4 configurable inputs/outputs
Analytics	Included AXIS Video Motion Detection, Shock Detection, Advanced Gatekeeper Supported AXIS Cross Line Detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see www.axis.com/acap	Storage
Event triggers	Detectors: live stream accessed, video motion detection, shock detection, day/night mode Hardware: network, temperature Input signal: digital input, manual trigger, virtual inputs PTZ: autotracking, moving, preset reached, ready Storage: disruption, recording System: system ready	Support for SD/SDHC/SDXC card Support for SD card encryption Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see www.axis.com
		Operating conditions
		Normal: -50 °C to 55 °C (-58 °F to 131 °F) Maximum (intermittent): 65 °C (149 °F) Arctic Temperature Control: start-up at -40 °C (-40 °F) Humidity 10–100% RH (condensing) Wind load when PTZ operational 47 m/s (106 mph), without sunshine > 60 m/s (135 mph) ^g Maximum effective projected area (EPA): 0.119 m ²
		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 62236-4 Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22 Environment IEC/EN 60529 IP66, IEC 62262 IK10 ^h , NEMA 250 Type 4x, ISO 4892-2, IEC 60068-2-6, IEC 60068-2-27
		Dimensions
		229 x 411 x 580 mm (9 x 16 x 23 in) Maximum height with 45° tilt upwards: 680 mm (27 in) Maximum width/depth with 360° pan clearance: 633 mm (25 in)
		Weight
		14 kg (31 lb)
		Included accessories
		Installation Guide Windows decoder 1-user license Power connector, I/O connector Torx [®] bits T20 and T30
		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 m ⁱ AXIS T8611 SFP Module LC.LX AXIS T8612 SFP Module LC.SX AXIS T8613 SFP Module 1000BASE-T AXIS T99 Illuminator Bracket Kit A Power supply DIN PS24 480 W

	For more accessories, see www.axis.com
Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available on www.axis.com/techsup/software
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	5-year warranty, see axis.com/warranty

- The camera housing can be mounted in an inverted configuration if tilting directly upwards is preferred.
- Internal heaters to defrost ice build-up, activated by HTTP API (VAPIX).
- 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.
- 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).

- Memory of all IP data and home position retained, and guard tour and other events resumed.
- If the network link is established via both the SFP and RJ45 connectors, the former acts as the primary link and the latter as the failover link.
- The values shown are based on results from actual wind tunnel testing. The maximum wind load when the unit is stationary is not known due to wind speed limit of 60 m/s (135 mph) at the test lab. For drag force calculations, use maximum effective projected area (EPA).
- Excluding front window.
- When using the 22 m (72 ft) AXIS Cable 24 V DC/24–240 V AC, a power supply capable of delivering 400 W is required to compensate for the power loss in the cable.

Environmental responsibility:

axis.com/environmental-responsibility

For more information please contact:



BOCK OPTRONICS INC.

14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

Tel: (416) 674-2804
sales@bockoptronics.ca
www.bockoptronics.ca

AXIS Q8642-E PT Thermal Network Camera

Unobstructed views and long-distance VGA detection

AXIS Q8642-E PT Thermal Network Camera offers outstanding thermal contrast and 10° field of view, which together with analytics, enables long-range detection and immediate visual confirmation for the operator. Highly responsive and reliable positioning camera, designed for continuous and jerk-free pan and tilt movements (360° endless and 135° from ground to sky). When column-mounted, it enables 360° unobstructed field of view, covering a wide area and reducing the cost for additional cameras. AXIS Q8642-E provides 640x480 thermal resolution, Zipstream and electronic image stabilization. Features both RJ45 and SFP interfaces, enabling a long-distance fiber connection with a failover network link.

- > [Reliable thermal detection](#)
- > [Outstanding thermal contrast – 640x480 resolution](#)
- > [Responsive positioning with quick, smooth pan and tilt capabilities](#)
- > [Save bandwidth with Zipstream](#)
- > [Electronic image stabilization](#)



AXIS Q8642-E PT Thermal Network Camera

Models	AXIS Q8642-E 60 mm 30 fps 24 V AXIS Q8642-E 60 mm 8.3 fps 24 V	General	
Camera		Casing	IP66- and NEMA 4X-rated powder coated aluminum Color: white NCS S 1002-B Front window: germanium Sunshield: high-impact UV-stabilized thermoplastic
Image sensor	Uncooled Micro bolometer 640x480, pixel size: 17 µm Spectral range: 8-14 µm	Sustainability	PVC free
Lens	Athermalized Horizontal field of view: 10°, F1.25	Memory	512 MB RAM, 256 MB Flash
Sensitivity	NETD < 50 mK	Power	24 V AC/DC Typical 16 W, max 182 W Power loss recovery ^d , TVS 2 kV surge protection I/O connector Output power 12 V DC, max load 50 mA
Pan/Tilt	Pan: 360° endless, 0.05°-120°/s Tilt: -90 to +45°, 0.05°-60°/s Jerk-free movements at low speed: $\sigma < 0.01^\circ/s$ (at 0.05°/s) De-icing control ^a Preset accuracy: 0.05° 256 preset positions, guard tour, control queue, on-screen directional indicator, de-icing control, dynamic load balancing ^b	Connectors	SFP slot (SFP module not included) ^e RJ45 10BASE-T/100BASE-TX/1000BASE-T network connector ^e Power connector I/O connector: 6-pin terminal block with 4 configurable inputs/outputs
Video		Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG	Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) Humidity 10-100% RH (condensing) Wind load when PT operational 47 m/s (106 mph). Maximum effective projected area (EPA): 0.105 m ²
Resolution	Sensor is 640x480. Image can be scaled up to 800x600 (SVGA).	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
Frame rate	Up to 8.3 fps and 30 fps	Approvals	EMC EN 55032 Class A, EN 55024, EN 61000-6-1, EN 61000-6-2, EN 61000-3-2, EN 61000-3-3, 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 Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22 Environment IEC/EN 60529 IP66, NEMA 250 Type 4X, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-27 Network NIST SP500-267
Video streaming	At least three H.264 and Motion JPEG streams, simultaneous and individually configured in max. resolution in full frame rate Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/ABR/MBR H.264	Dimensions	557 x 229 x 289 mm (22 x 9 x 11 in)
Image settings	Compression, brightness, sharpness, contrast, exposure zone, text and image overlay, mirroring of images, electronic image stabilization, multiple palettes	Weight	12.2 kg (27 lb)
Network		Included accessories	Installation guide, Windows® decoder 1-user license Power connector, I/O connector, Torx® bits T20 and T30
Security	Password protection, IP address filtering, HTTPS ^c encryption, network fail-over link ^e , IEEE 802.1x (EAP-TLS) ^c network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware	Optional accessories	AXIS T94J01A Wall Mount, AXIS T94N01G Pole Mount, AXIS T95A64 Corner Bracket, AXIS Cable 24 V DC/24-240 V AC 22 m ^f , AXIS T8611 SFP Module LC.LX, AXIS T8612 SFP Module LC.SX, AXIS T8613 SFP Module 1000BASE-T For more accessories, see axis.com
Supported protocols	IPv4, IPv6 USGv6, HTTP, HTTPS ^c , SSL/TLS ^c , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SFTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, LLDP, MQTT v3.1.1	Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at axis.com/vms
System integration		Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at axis.com AXIS Video Hosting System (AVHS) with One-Click Connection One-click cloud connection ONVIF [®] Profile G and ONVIF [®] Profile S, specification at onvif.org	Warranty	5-year warranty, see axis.com/warranty
Event triggers	Detectors: live stream accessed, video motion detection, shock detection Hardware: network, temperature Input signal: digital input, manual trigger, virtual inputs PTZ: moving, preset reached, ready Storage: disruption, recording System: system ready Time: recurrence, use schedule	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.
Event actions	Video recording to edge storage, pre- and post-alarm video buffering, external output activation, send SNMP trap, overlay text PTZ control: preset position, guard tour File upload: FTP, HTTP, HTTPS, SFTP, network share, email Notification: HTTP, HTTPS, TCP, email		
Data streaming	Event data		
Built-in installation aids	Pixel counter		
Analytics			
Applications	Included AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, shock detection Supported AXIS Perimeter Defender Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap		

- Internal heaters to defrost ice build-up. Automatic for camera and activated by HTTP API (VAPIX) for positioning unit.
- 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.
- This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (ey@cryptsoft.com).
- IP data and home position retained, and guard tour and other events resumed.
- 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 failover link.
- When using the 22 m (72 ft) AXIS Cable 24 V DC/24-240 V AC, a power supply capable of delivering 220 W is required to compensate for the power loss in the cable.

Environmental responsibility:

axis.com/environmental-responsibility

For more information please contact:



BOCK OPTRONICS INC.

14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

Tel: (416) 674-2804
sales@bockoptronics.ca
www.bockoptronics.ca