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**

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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

Camera

Image sensor	Uncooled Micro bolometer 640x480, pixel size: 17 µm Spectral range: 8-14 µm
Lens	Athermalized Horizontal field of view: 10°, F1.25
Sensitivity	NETD < 50 mK
Pan/Tilt	Pan: 360° endless, 0.05°–120°/s Tilt: –90 to +45°, 0.05°–60°/s. Jerk-free movements at low speed: $\sigma < 0.01°/s$ (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]

Video

Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG
Resolution	Sensor is 640x480. Image can be scaled up to 800x600 (SVGA).
Frame rate	Up to 8.3 fps and 30 fps
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
Image settings	Compression, brightness, sharpness, contrast, exposure zone, text and image overlay, mirroring of images, electronic image stabilization, multiple palettes

Network

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
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, NTCIP, NTP, RTSP, RTP, SFTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, LLDP, MQTT v3.1.1

System integration

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*
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
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

Casing	IP66– and NEMA 4X-rated powder coated aluminum Color: white NCS S 1002–B Front window: germanium Sunshield: high-impact UV-stabilized thermoplastic
Sustainability	PVC free
Memory	512 MB RAM, 256 MB Flash
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
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
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*
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
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
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
Dimensions	557 x 229 x 289 mm (22 x 9 x 11 in)
Weight	12.2 kg (27 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 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*
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, Traditional Chinese
Warranty	5-year warranty, see *axis.com/warranty*
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.

a. *Internal heaters to defrost ice build-up. Automatic for camera and activated by HTTP API (VAPIX) for positioning unit.*
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. (openssl.org), and cryptographic software written by Eric Young (eay@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 failover link.*
f. *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*