

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

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| 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: $\sigma < 0.01^\circ/s$ (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 |
| 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 ^c , 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, 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, AXIS Loitering 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. |

- 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.