AXIS Q8615-E PTZ Camera

Positioning camera with ½" sensor and analytics

This high-performance camera offers HDTV 1080p resolution with 31x optical zoom for outstanding image quality. It can be column-mounted for a continuous, unobstructed 360° panoramic view and a ground-to-sky view from -90° to +45°. Featuring a ½" sensor, Forensic WDR, and Lightfinder it ensures sharp, clear images even when in extreme low-light. And it comes with built-in analytics from Axis. For instance, Axis Object Analytics can detect and classify people and vehicles – all tailored to specific needs. It includes an SFP slot to support long-distance fiber connection. Plus, an integrated, long-life silicone wiper ensures cost-effective maintenance.

> Superior light sensitivity with Lightfinder

> WDR, 31x optical zoom

> Support for intelligent analytics

> Built-in cybersecurity features

> IR illumination as an optional accessory

AXIS Q8615-E PTZ Camera

Models	AXIS Q8615-E 50 Hz AXIS Q8615-E 60 Hz

Camera

Image sensor	1/2" progressive scan RGB Outdoor CMOS
Lens	Varifocal, 6.9–214.6 mm, F1.36–4.6 Horizontal field of view: 60.6°–2.0° Vertical field of view: 36.5°–1.1° P-Iris control Minimum focus distance: 1 m (3.3 ft)
Day and night	Automatically removable infrared-cut filter
Minimum illumination	**Color:** 0.06 lux at 50 IRE F1.36 **B/W:** 0.001 lux at 50 IRE F1.36
Shutter speed	1/111000 to 1/2 s
Pan/Tilt/Zoom	Pan: 360° endless, 0.05°/s to 120°/s Tilt (default): -90° to +45°, Tilt (inverted[a]): -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: 31x optical zoom, 12x digital zoom, total 372x zoom Preset accuracy: 0.05° 256 preset positions, guard tour, control queue, on-screen directional indicator, focus recall, de-icing control, dynamic load balancing

System on chip (SoC)

Model	ARTPEC-7
Memory	2048 MB RAM, 512 MB Flash
Compute capabilities	Machine learning processing unit (MLPU)

Video

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
Resolution	16:9: 1920x1080 to 320x180
Frame rate	Up to 50/60 fps (50/60 Hz)
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 Video streaming indicator
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR – Up to 120 dB depending on scene, white balance, day/night threshold, tone mapping, exposure mode, exposure zones, defogging, barrel distortion correction, electronic image stabilization, compression, dynamic text and image overlay, 32 individual polygon privacy masks including mosaic and chameleon privacy masks

Network

Security	IP address filtering, HTTPS[b] encryption, IEEE 802.1x (EAP-TLS)[b] network access control, user access log, centralized certificate management
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS[b], HTTP/2, TLS[b], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, NTCIP, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)

System integration

Application Programming Interface	Open API for software integration, including VAPIX®, metadata and AXIS Camera Application Platform (ACAP); specifications at *axis.com/developer-community*. ACAP includes Native SDK. One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specifications at *onvif.org*
Onscreen controls	Timed wiper Privacy masks White light LED IR illumination

Event conditions	Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, network lost, new IP address, PTZ power failure, storage failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption, storage health issues detected 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
Event actions	Day-night mode Defog: toggle defog once, use defog filter while the rule is active Guard tour: run while the rule is active, start I/O: toggle I/O once, toggle I/O while the rule is active IR illumination: turn on, use IR lights while the rule is active MQTT: publish Notification: HTTP, HTTPS, TCP and email Overlay text Preset positions PTZ autotracking Recordings: SD card and network share SNMP trap messages: send, send while the rule is active Washer WDR mode White illumination Wiper Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email
Built-in installation aids	Pixel counter

Analytics

AXIS Object Analytics	**Object classes:** humans, vehicles **Trigger conditions:** line crossing, object in area, time in area[BETA] Up to 10 scenarios Metadata visualized with trajectories and color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
Metadata	**Object data:** Classes: humans, faces, vehicles, license plates Confidence, position **Event data:** Producer reference, scenarios, trigger conditions
Applications	**Included** AXIS Object Analytics, AXIS Video Motion Detection, Orientation Aid PTZ, AXIS OSDI Zones, AXIS PTZ Autotracking, active gatekeeper **Supported** AXIS Perimeter Defender Support for additional applications if the device is used with compatible accessories. For more information, contact your Axis partner. Support for AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap*

Cybersecurity

Edge security	**Software:** Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption **Hardware:** Secure boot, Axis Edge Vault with Axis device ID, signed video, secure keystore (CC EAL4+, FIPS 140-2 level 2 certified hardware protection of cryptographic operations and keys)
Network security	IEEE 802.1X (EAP-TLS)[b], IEEE 802.1AR, HTTPS/HSTS[b], TLS v1.2/v1.3[b], Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
Documentation	*AXIS OS Hardening Guide* *Axis Vulnerability Management Policy* *Axis Security Development Model* To download documents, go to *axis.com/support/cybersecurity/resources*

To read more about Axis cybersecurity support, go to *axis.com/cybersecurity*

General

Casing	IP66-, IK10^c- and NEMA 4X-rated powder coated aluminum casing Color: white NCS S 1002-B Front window: tempered glass with anti-reflective coating Long-life silicone wiper Sunshield: high-impact UV-stabilized thermoplastic
Sustainability	PVC free, 18% recycled plastics, , 1% bioplastic
Power	20-28 V AC/DC Typical: 9.6 W Max: 204 W Power loss recovery TVS 2 kV surge protection **I/O connector** Output voltage: 12 V DC Max load: 50 mA
Connectors	Network: SFP slot (SFP module not included)^d Network: RJ45 10BASE-T/100BASE-TX/1000BASE-T Power: DC input, terminal block I/O: 6-pin terminal block with 4 configurable inputs/outputs
Storage	Support for SD/SDHC/SDXC 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	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) Start-up temperature: -40 °C Humidity 10–100% RH (condensing) Wind speed (sustained): 47 m/s (106 mph), without sunshield > 60 m/s (135 mph)^e
Storage conditions	–40 °C to 70 °C (–40 °F to 158 °F) Humidity 5–95% RH (non-condensing)
Approvals	**EMC** EN 55032 Class A, EN 55035, EN 50121-4, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), IEC 62236-4, RCM AS/NZS CISPR 32 Class A, VCCI Class A, KS C 9832 Class A, KS C 9835 **Safety** CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3 **Environment** IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC 62262 IK10^c, IEC/EN 60529 IP66, ISO 4892-2, NEMA 250 Type 4x, NEMA TS 2 (2.2.7-2.2.9) **Network** NIST SP500-267
Dimensions	229 x 411 x 579 mm (9 x 16 x 22.8 in) Maximum height with 45° tilt upwards: 680 mm (27 in) Maximum width/depth with 360° pan clearance: 633 mm (25 in) Effective projected area (EPA): 0.119 m^2
Weight	14.4 kg (31.7 lb)
Included accessories	Installation guide, Windows® decoder 1-user license, power connector, I/O connector **AXIS Q8615-E 60 Hz:** ferrite
Optional accessories	AXIS T94J01A Wall Mount AXIS T94N01G Pole Mount AXIS T95A64 Corner Bracket AXIS PT IR Illuminator Kit C AXIS Washer Kit B AXIS Cable 24 V DC/24–240 V AC 22 m 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 *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*

a. *The camera housing can be mounted in an inverted configuration if tilting directly upwards is preferred.*
b. *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).*
c. *Excluding front window.*
d. *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.*
e. *The values shown are based on results from actual wind tunnel testing. The maximum wind speed 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 Effective Projected Area (EPA).*

Environmental responsibility:

axis.com/environmental-responsibility

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