AXIS Q6318-LE PTZ Camera

4K UHD PTZ with quick-zoom and laser focus

AXIS Q6318-LE offers superior 4K UHD resolution. It features IR illumination and day/night functionality for surveillance in pitch darkness. With a built-in laser, 31x optical zoom, you can easily follow fast-moving objects and quick-zoom makes it move from wide to tele view in just 1 second. This high-speed PTZ camera includes orientation aid and autotracking 2 with click and track functionality. AXIS Object Analytics lets you detect and classify humans and vehicles. Furthermore, it includes a Trusted Platform Module (TPM) that's FIPS 140-2 level 2 certified.

- > 1/2" sensor with 31x optical zoom
- > IR illumination, D/N functionality, Lightfinder 2.0
- > Laser focus for precise focus
- > AXIS Object Analytics, autotracking 2
- > TPM, FIPS 140-2 level 2 certified

AXIS Q6318-LE PTZ Camera

Variants	AXIS Q6318-LE 50 Hz AXIS Q6318-LE 60 Hz

Camera

Image sensor	1/2" progressive scan CMOS
Lens	Focal length: 6.91 – 214.64 mm, F1.36 – F4.6 Horizontal field of view: 58.5°– 2.3° Vertical field of view: 34.9°– 1.4° Laser focus, autofocus, P-iris Zoom speed: <1 sec between any zoom value
Day and night	Automatically removable infrared-cut filter
Minimum illumination	**Color:** 0.11 lux at 30 IRE, F1.36 **B/W:** 0.001 lux at 30 IRE, F1.36, 0 lux with IR illumination on **Color:** 0.25 lux at 50 IRE, F1.36 **B/W:** 0.009 lux at 50 IRE, F1.36, 0 lux with IR illumination on
Shutter speed	1/8500 s to 1/5 s with 50 Hz 1/8500 s to 1/5 s with 60 Hz
Pan/Tilt/Zoom	Pan: 360° endless, 0.05°– 550°/s Tilt: +20 to -90°, 0.05°– 500°/s Zoom: 31x optical, 12x digital, Total 372x zoom Quick-zoom, nadir flip, 300 preset positions, tour recording (max 10, max duration 16 minutes each), guard tour (max 100), control queue, on-screen directional indicator, set new pan 0°, adjustable zoom speed, speed dry

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	3840x2160 4K UHD
Frame rate	Up to 25/30 fps (50/60 Hz) in all resolutions
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 Low latency mode Video streaming indicator
Image settings	Compression, color, brightness, sharpness, white balance, exposure control, exposure zones, image freeze on PTZ, scene profiles, rotation, electronic image stabilization (EIS), defogging Contrast, local contrast, autofocus, Forensic WDR: Up to 120 dB depending on scene, 32 individual polygon privacy masks including mosaic privacy mask
Signal-to-noise ratio	>55 dB

Network

Security	multi-level user, IP address filtering, HTTPS[a] encryption, IEEE 802.1x (EAP-TLS)[a], network access control, user access log, centralized certificate management
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS[a], HTTP/2, TLS[a], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, NTCIP, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

System integration

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, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at *onvif.org*
Video management systems	Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at *axis.com/vms*.
Onscreen controls	IR illumination Quick-zoom Enable/disable all privacy masks Speed dry
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, shock detected, storage failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption I/O: 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	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, day/night mode WDR mode IR illumination MQTT publish

Analytics

Applications	**Included** AXIS Object Analytics, AXIS Scene Metadata, AXIS Video Motion Detection, AXIS OSDI Zone, Orientation Aid PTZ, advanced gatekeeper, autotracking 2 **Supported** AXIS Perimeter Defender, AXIS License Plate Verifier Support for AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap*
AXIS Object Analytics	**Object classes:** humans, vehicles **Scenarios**: line crossing, object in area, crossline counting, time in area Up to 10 scenarios **Other features:** triggered objects visualized with trajectories, color-coded bounding boxes and tables Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
AXIS Scene Metadata	**Object classes:** humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates **Object attributes:** confidence, position

Approvals

EMC	EN 55032 Class A, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, CISPR 35, EAC, EN 50121-4 **Australia/New Zealand:** RCM AS/NZS CISPR 32 Class A **Canada:** ICES-3(A)/NMB-3(A) **Japan:** VCCI Class A **Korea:** KS C 9832 Class A, KS C 9835 **USA:** FCC Part 15 Subpart B Class A **Railway:** IEC 62236-4
Safety	IEC/EN/UL 62368-1 ed. 3, CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN 62471 risk group 2, IEC 60825-1 Class 1, IS 13252
Environment	IEC/EN 62262 IK10, IEC/EN 60529 IP66, IEC/EN 60529 IP67, NEMA 250, Type 4X, NEMA TS 2 (2.2.7–2.2.9), IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, ISO 21207 (Method B), ISO 12944-6:2018 C5 (Medium)
Network	NIST SP500-267
Cybersecurity	ETSI EN 303 645, FIPS 140

Cybersecurity

Edge security	**Software:** Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption **Hardware:** Axis Edge Vault cybersecurity platform

	TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), secure element (CC EAL 6+), Axis device ID, secure keystore, signed video, secure boot
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)[a], IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS[a], TLS v1.2/v1.3[a], Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
Documentation	*AXIS OS Hardening Guide* *Axis Vulnerability Management Policy* *Axis Security Development Model* AXIS OS Software Bill of Material (SBOM) 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-, IP67, NEMA 4X- and IK10-rated Color: white NCS S 1002-B Repaintable metal casing (aluminum), hard coated Polycarbonate (PC) clear dome with Sharpdome technology
Sustainability	PVC free
Power	Axis High PoE 60 W SFP midspan 1-port: 100–240 V AC, max 1.5 A IEEE802.3bt Type 3 Class 6 Possibility to optimize power consumption of camera: Full power: typical 15 W (no IR), max 51 W Low power: typical 15 W (no IR), max 30 W. With IR: 44 W
Connectors	RJ45 10BASE-T/100BASE-TX/1000BASE-T RJ45 Push-pull Connector (IP66)
IR illumination	OptimizedIR with power-efficient, long-life 850 nm IR LEDs Range of reach 200 m (656 ft) or more depending on the scene
Storage	Support for SD/SDHC/SDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see *axis.com*
Operating conditions	Full power: -50 °C to 50 °C (-58 °F to 122 °F) Low power: -5 °C to 50 °C (23 °F to 122 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Arctic temperature control: start-up as low as -40 °C (-40 °F) Humidity: 10–100% RH (condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity: 5-95% RH (non-condensing)
Dimensions	Height: 261 mm (10.3 in) With weather shield: ø 239 mm (9.4 in) Without weather shield: ø 192 mm (7.6 in)
Weight	4 800 g (10.6 lb)
Included accessories	Installation guide, Windows® decoder 1-user license, 60 W Midspan (including power cable), IP66 rated network connector, repaint template, paint paper
Optional accessories	AXIS T91/T94 Mounting Accessories AXIS T8415 Wireless Installation Tool AXIS Surveillance Cards For more accessories, see *axis.com*
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see *axis.com/warranty*

a. *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).*