# 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

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| **Models** | AXIS Q6318-LE 50 Hz<br>AXIS Q6318-LE 60 Hz |

## Camera

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| **Image sensor** | 1/2" progressive scan CMOS |
| **Lens** | Focal length: 6.91 – 214.64 mm, F1.36 – F4.6<br>Horizontal field of view: 58.5°– 2.3°<br>Vertical field of view: 34.9°– 1.4°<br>Laser focus, autofocus, P-iris<br>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<br>**B/W:** 0.001 lux at 30 IRE, F1.36, 0 lux with IR illumination on<br>**Color:** 0.25 lux at 50 IRE, F1.36<br>**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<br>1/8500 s to 1/5 s with 60 Hz |
| **Pan/Tilt/Zoom** | Pan: 360° endless, 0.05°– 550°/s<br>Tilt: +20 to -90°, 0.05°– 500°/s<br>Zoom: 31x optical, 12x digital, Total 372x zoom<br>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)

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

## Video

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| **Video compression** | H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles<br>H.265 (MPEG-H Part 2/HEVC) Main Profile<br>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<br>Axis Zipstream technology in H.264 and H.265<br>Controllable frame rate and bandwidth<br>VBR/ABR/MBR H.264/H.265<br>Low latency mode<br>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<br>Contrast, local contrast, autofocus, Forensic WDR: Up to 120 dB depending on scene, 32 individual polygon privacy masks including mosaic privacy mask |

## Network

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| **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

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| **Application Programming Interface** | Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at *axis.com*<br>One-Click Cloud Connection<br>ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at *onvif.org* |
| **Onscreen controls** | IR illumination<br>Quick-zoom<br>Enable/disable all privacy masks<br>Speed dry |

## Event conditions

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| **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<br>Edge storage: recording ongoing, storage disruption<br>I/O: manual trigger, virtual input<br>MQTT subscribe<br>PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready<br>Scheduled and recurring: scheduled event<br>Video: average bitrate degradation, day-night mode, live stream open |
| **Event actions** | Record video: SD card and network share<br>Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email<br>Pre- and post-alarm video or image buffering for recording or upload<br>Notification: email, HTTP, HTTPS, TCP and SNMP trap<br>PTZ: PTZ preset, start/stop guard tour<br>Overlay text, day/night mode<br>WDR mode<br>IR illumination<br>MQTT publish |

## Analytics

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| **AXIS Object Analytics** | **Object classes:** humans, vehicles<br>**Features:** line crossing, object in area, crossline counting[BETA], time in area[BETA]<br>Up to 10 scenarios<br>Metadata visualized with color-coded bounding boxes<br>Polygon include/exclude areas<br>Perspective configuration<br>ONVIF Motion Alarm event |
| **Metadata** | **Object data:** Classes: humans, faces, vehicles, license plates<br>Confidence, position<br>**Event data:** Producer reference, scenarios, trigger conditions |
| **Applications** | Included<br>AXIS Object Analytics, AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, AXIS OSDI Zone, Orientation Aid PTZ, advanced gatekeeper, autotracking 2<br>Support for AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap* |

## Cybersecurity

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| **Edge security** | **Software:** Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption<br>**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)[a], IEEE 802.1AR, HTTPS/HSTS[a], TLS v1.2/v1.3[a], Network Time Security (NTS), X.509 Certificate PKI, IP address filtering |
| **Documentation** | *AXIS OS Hardening Guide*<br>*Axis Vulnerability Management Policy*<br>*Axis Security Development Model*<br>AXIS OS Software Bill of Material (SBOM)<br>To download documents, go to *axis.com/support/cybersecurity/resources*<br>To read more about Axis cybersecurity support, go to *axis.com/cybersecurity* |

## General

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| **Casing** | IP66-, IP67, NEMA 4X- and IK10-rated<br>Color: white NCS S 1002-B<br>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:<br>100–240 V AC, max 1.5 A<br>IEEE802.3bt Type 3 Class 6<br>Camera consumption: typical 17 W (no IR), max 51 W |
| **Connectors** | RJ45 10BASE-T/100BASE-TX/1000BASE-T<br>RJ45 Push-pull Connector (IP66) |
| **IR illumination** | OptimizedIR with power-efficient, long-life 850 nm IR LEDs |

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| | Range of reach 200 m (656 ft) or more depending on the scene |
| **Storage** | Support for SD/SDHC/SDXC card<br>Support for SD card encryption (AES-XTS-Plain64 256bit)<br>Support for recording to network-attached storage (NAS)<br>For SD card and NAS recommendations see *axis.com* |
| **Operating conditions** | –5 °C to 50 °C (–23 °F to 122 °F): typical 15 W (no IR), max 30 W.<br>With IR: 44 W<br>–50 °C to 50 °C (–58 °F to 122 °F): typical 15 W (no IR), max 51 W<br>Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)<br>Arctic temperature control: start-up as low as –40 °C (–40 °F)<br>Humidity: 10–100% RH (condensing) |
| **Storage conditions** | –40 °C to 65 °C (–40 °F to 149 °F)<br>Humidity: 5-95% RH (non-condensing) |
| **Approvals** | **EMC**<br>EN 55032 Class A, EN 55035, IEC 62236-4, 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), VCCI Class A, RCM AS/NZS CISPR 32 Class A, CISPR 35, EAC, EN 50121-4, KS C 9832 Class A, KS C 9835<br>**Safety**<br>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<br>**Environment**<br>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) |

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| | **Network**<br>NIST SP500-267 |
| **Dimensions** | Height: 261 mm (10.3 in)<br>With weather shield: ø 239 mm (9.4 in)<br>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<br>AXIS T8415 Wireless Installation Tool<br>AXIS Surveillance Cards<br>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, 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).*

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