

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, HTTPS¹ encryption, IEEE 802.1x (EAP-TLS)¹, network access control, user access log, centralized certificate management

1. 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).

Network protocols

IPv4, IPv6, USGv6, ICMPv4/ICMPv6, HTTP, HTTPS², HTTP/2, TLS², 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

2. 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).

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, BSI IT Security Label, 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, Axis Cryptographic
Module (FIPS 140-2 level 1), 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)³,
IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR,
HTTPS/HSTS³, TLS v1.2/v1.3³, 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
Features: power meter

Connectors

RJ45 10BASE-T/100BASE-TX/1000BASE-T
RJ45 Push-pull Connector (IP66)

IR illumination

Optimized IR 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)

3. 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).

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