

AXIS Q6315-LE PTZ Network Camera

High-end outdoor-ready HDTV 1080p PTZ camera with quick-zoom and laser focus

AXIS Q6315-LE is a high-speed PTZ camera offering HDTV 1080p resolution. It features IR illumination and day/night functionality for surveillance in pitch darkness. With 31x optical zoom, laser focus for precise focus and quick-zoom functionality, it allows you to easily follow fast-moving objects. It includes orientation aid and autotracking 2 with click and track functionality. Privacy masking with mosaic lets you pixelate whole areas of the scene. Plus, with chameleon masking, it automatically changes the color in the masking depending on the background color of the image. Furthermore, the TPM module ensures secure storage of all cryptographic keys and certificates.

- > **1/2" sensor with 31x optical zoom**
- > **IR illumination, D/N functionality, Lightfinder 2.0**
- > **Autotracking 2 and orientation aid**
- > **Laser focus for precise focus with quick-zoom <1 sec zoom speed**
- > **TPM, FIPS 140-2 level 2 certified**



AXIS Q6315-LE PTZ Network Camera

Variants

AXIS Q6315-LE 50 Hz
AXIS Q6315-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: 60.6° – 2.0°
Vertical field of view: 36.5° – 1.1°
Laser focus, autofocus, P-iris
Zoom speed: <1 sec between any zoom value

Day and night

Automatically removable infrared-cut filter

Minimum illumination

Color: 0.06 lux at 30 IRE, F1.36
B/W: 0.001 lux at 30 IRE, F1.36, 0 lux with IR illumination on
Color: 0.09 lux at 50 IRE, F1.36
B/W: 0.008 lux at 50 IRE, F1.36, 0 lux with IR illumination on

Shutter speed

1/111000 s to 1/2 s with 50 Hz
1/111000 s to 1/2 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

1024 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

1920x1080 (HDTV 1080p) to 320x180

Frame rate

Up to 50/60 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 and chameleon privacy masks

Signal-to-noise ratio

>55 dB

Audio

Audio input

Input through portcast technology

Audio output

Output through portcast technology

Network

Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS¹, HTTP/2, TLS¹, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, PTP, NTS, RTSP, 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, 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: KC KN32 Class A, KC KN35

USA: FCC Part 15 Subpart B Class A

Railway: IEC 62236-4

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 (ey@cryptsoft.com).

Safety

IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 60950-22, CAN/CSA-C22.2 No. 60950-22, 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 Client Credential Flow/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: Secure boot, Axis Edge Vault with secure keystore (CC EAL4+, FIPS 140-2 level 2 certified hardware protection of cryptographic operations and keys)

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)², IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS², TLS v1.2/v1.3², 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)
Audio: Audio and I/O connectivity via portcast technology

IR illumination

Optimized IR with power-efficient, long-life 850 nm IR LEDs
Range of reach 300 m (984 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)

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 (eyay@cryptsoft.com).

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](https://www.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](https://www.axis.com/warranty)