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, HTTPS[1], HTTP/2, TLS[1], 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: KC KN32 Class A, KC KN35
USA: FCC Part 15 Subpart B Class A
Railway: IEC 62236-4

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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).*

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 OpenID
Authorization Code Flow for centralized ADFS account
management, password protection, 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/HSTS[2], TLS
v1.2/v1.3[2], 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)
Audio: Audio and I/O connectivity via portcast
technology

IR illumination

OptimizedIR 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)

Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)
Humidity 5-95% RH (non-condensing)

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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 (eay@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*

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