AXIS Q6225-LE PTZ Camera

Heavy-duty PTZ camera with long-range IR

This heavy-duty PTZ camera meets the MIL-STD-810G standard, ensuring reliable operation in the toughest conditions. It offers HDTV 1080p resolution and a 1/2" sensor with 31x optical zoom. Featuring Lightfinder, Forensic WDR, and OptimizedIR it ensures sharp, clear images in any light conditions. This vandal-resistant, IK10-rated camera is resistant to both impacts and harsh weather conditions including wind speed up to 245 km/h (150 mph). It comes with built-in analytics preinstalled to alert you when needed. Additionally, Zipstream with H.264/ H.265 significantly reduces bandwidth and storage requirements without compromising image quality.

> **HDTV 1080p and 31x optical zoom**
> **1/2" sensor and long-range OptimizedIR**
> **Electronic image stabilization**
> **MIL-STD-810G and NEMA TS 2 compliant**
> **AXIS Object Analytics preinstalled**

ONVIF® | GMST

AXIS Q6225-LE PTZ Camera

Camera

Image sensor
1/2" progressive scan CMOS

Lens
Focal length: 6.91 – 214.64 mm, F1.36 – F4.6
Horizontal field of view: 63.8°– 2.2°
Vertical field of view: 37°– 1.3°
Autofocus, P-iris

Day and night
Automatically removable infrared-cut filter

Minimum illumination
Color: 0.05 lux at 30 IRE F1.36
B/W: 0.001 lux at 30 IRE F1.36, 0 lux with IR illumination on
Color: 0.08 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

Pan/Tilt/Zoom
Pan: 360° endless, 0.05°/s to 150°/s
Tilt: -90° to +90°, 0.05°/s to 150°/s
Zoom: 31x optical zoom, 12x digital zoom
Preset accuracy: 0.10°
300 preset positions, tour recording, guard tour, control queue, orientation aid PTZ, focus recall

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 320×180

Frame rate
Up to 60/50 fps (60/50 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

Image settings
Compression, color, brightness, sharpness, white balance, exposure control, exposure zones, image freeze on PTZ, scene profiles, rotation, electronic image stabilization (EIS)[1], 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 features
Automatic gain control
Speaker pairing
Voice enhancer

Audio streaming
Two-way (full duplex)

Audio input
Input through speaker pairing or portcast technology

Audio output
Output through speaker pairing or portcast technology

1. EIS and privacy masks cannot be used simultaneously.

Audio encoding

AAC-LC 8/16/32/44.1/48 kHz, G.711 PCM 8 kHz, G.726
ADPCM 8 kHz, Opus 8/16/48 kHz, LPCM 48 kHz
Configurable bitrate

Network

Security

IP address filtering, HTTPS[2] encryption,
IEEE 802.1x (EAP-TLS)[2] network access control, user
access log, centralized certificate management

Network protocols

IPv4/v6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS[2], TLS[2],
QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS
(Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/
DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP,
UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP,
SOCKS, SSH, LLDP, NTCIP, 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/developer-community.
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*.

Event conditions

Analytics, edge storage events, virtual inputs through
API
Audio: audio detection, audio clip playing
Detectors: day/night mode, live stream accessed, shock
detection
Hardware: fan, network, temperature
Input Signal: virtual inputs, manual trigger
MQTT subscribe
PTZ: autotracking, error, moving, preset reached, ready
Storage: disruption, recording
System: system ready
Time: use schedule

Event actions

Audio clips: play, stop
Record video: SD card and network share
MQTT publish
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, and TCP
PTZ: PTZ preset, start/stop guard tour, autotracking
Overlay text, day/night mode

Data streaming

Event data

Built-in installation aids

Pixel counter
Automatic orientation

Analytics

Applications

Included
AXIS Object Analytics, AXIS Scene Metadata, AXIS Video
Motion Detection, autotracking, gatekeeper
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

Approvals

EMC

EN 55035, EN 55032 Class A, EN 50121-4,
EN 61000-3-2, EN 61000-3-3, EN 61000-6-1,
EN 61000-6-2
Australia/New Zealand: RCM AS/NZS CISPR 32 Class A
Canada: ICES-3(A)/NMB-3(B)
Japan: VCCI Class A
Korea: KS C 9835, KS C 9832 Class A
USA: FCC Part 15 Subpart B Class A

---

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).

Safety

CAN/CSA C22.2 No. 62368-1,
CAN/CSA-C22.2 No. 60950-22, IEC/EN/UL 62368-1,
IEC/EN/UL 60950-22, IEC/EN 62471 risk group 2,
IS 13252

Environment

IEC/EN 60529 IP66/IP68, NEMA 250 Type 4X,
NEMA TS 2 (2.2.7-2.2.9), IEC/EN 62262 IK10,
MIL-STD-810G (Method 500.5, 501.5, 502.5, 503.5,
505.5, 506.5, 507.5, 509.5, 510.5, 521.3),
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 (High)

Network

NIST SP500-267

Cybersecurity

ETSI EN 303 645, BSI IT Security Label, FIPS 140

Midspan: EN 60950-1, GS, UL, cUL, CE, FCC, VCCI, CB

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/HSTS[3], TLS v1.2/v1.3[3], 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-, IP68-, NEMA 4X- and IK10-rated aluminum
casing
Color: urban grey NCS S 5502–B
Wiper included (silicone wiper blade)

Sustainability
PVC free

Power
High Power over Ethernet, max 90 W
Power over Ethernet (PoE) IEEE 802.3bt Type 4
Possibility to optimize power consumption of camera:
Full power: typical 16 W (no IR), max 71 W
Low power: typical 16 W (no IR), max 32 W. With
IR: 53 W
Features: power profiles, power meter

Connectors
RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE

IR illumination
OptimizedIR with power-efficient, long-life 850 nm IR
LEDs
Range of reach 400 m (1300 ft) or more depending on
the scene

Storage
Support for SD/SDHC/SDXC card
Support for SD card encryption (AES-XTS-Plain64
256bit)
Recording to network-attached storage (NAS)
For SD card and NAS recommendations, see *axis.com*

Operating conditions
Temperature with full power: -50 °C to 55 °C (-58 °F to
131 °F)
Temperature with low power: 0 °C to 55 °C (32 °F to
131 °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)
Wind speed (sustained): 68 m/s (245 km/h, 150 mph)[4]

Storage conditions
-40 °C to 65 °C (-40 °F to 149 °F)

---

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 (eay@cryptsoft.com).
4. The values shown are based on results from actual wind tunnel testing. The maximum wind speed when the unit is stationary is not known
   due to wind speed limit of 68 m/s (150 mph) at the test lab. For drag force calculations, use Effective Projected Area (EPA).

Weight
8.7 kg (19.3 lb)

Dimensions
210 x 330 x 313 mm (4 5/16 x 13 x 12 5/16 in)
Effective Projected Area (EPA): 0.071 m^2

Included accessories
Installation Guide, Windows® decoder 1-user license,
IK10 bumper, High PoE Midspan 1-port, RJ45 connector
push pull plug

Optional accessories
AXIS T95A64 Corner Bracket
AXIS T98A15-VE Media Converter Cabinet A
For more accessories, see *axis.com*

Languages
English, German, French, Spanish, Italian, Russian,
Simplified Chinese, Japanese, Korean, Portuguese,
Traditional Chinese, Dutch, Czech, Swedish, Finnish,
Turkish, Thai, Vietnamese

Warranty
5-year warranty, see *axis.com/warranty*