

## 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**



# 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 320x180

### 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)<sup>1</sup>, 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<sup>2</sup> encryption,  
IEEE 802.1x (EAP-TLS)<sup>2</sup> network access control, user access log, centralized certificate management

### Network protocols

IPv4/v6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS<sup>2</sup>, TLS<sup>2</sup>, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP<sup>®</sup>, 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<sup>®</sup> and AXIS Camera Application Platform; specifications at [axis.com/developer-community](https://axis.com/developer-community).  
One-click cloud connection  
ONVIF<sup>®</sup> Profile G, ONVIF<sup>®</sup> Profile M, ONVIF<sup>®</sup> Profile S, and ONVIF<sup>®</sup> Profile T, specification at [onvif.org](https://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](https://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](https://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](https://openssl.org)), and cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@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 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:** 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)<sup>3</sup>,  
IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR,  
HTTPS/HSTS<sup>3</sup>, TLS v1.2/v1.3<sup>3</sup>, 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](https://axis.com/support/cybersecurity/resources)

To read more about Axis cybersecurity support, go to [axis.com/cybersecurity](https://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

Optimized IR 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](https://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)<sup>4</sup>

### 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](https://openssl.org)), and cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@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)

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## Dimensions

210 x 330 x 313 mm (4 5/16 x 13 x 12 5/16 in)

Effective Projected Area (EPA): 0.071 m<sup>2</sup>

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## Included accessories

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

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## Optional accessories

AXIS T95A64 Corner Bracket

AXIS T98A15-VE Media Converter Cabinet A

For more accessories, see [axis.com](https://www.axis.com)

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## Languages

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

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## Warranty

5-year warranty, see [axis.com/warranty](https://www.axis.com/warranty)