# 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

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## Camera

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| **Image sensor** | 1/2" progressive scan CMOS |
| **Lens** | Focal length: 6.91 – 214.64 mm, F1.36 – F4.6<br>Horizontal field of view: 63.8°– 2.2°<br>Vertical field of view: 37°– 1.3°<br>Autofocus, P-iris |
| **Day and night** | Automatically removable infrared-cut filter |
| **Minimum illumination** | **Color:** 0.05 lux at 30 IRE F1.36<br>**B/W:** 0.001 lux at 30 IRE F1.36, 0 lux with IR illumination on<br>**Color:** 0.08 lux at 50 IRE F1.36<br>**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<br>Tilt: -90° to +90°, 0.05°/s to 150°/s<br>Zoom: 31x optical zoom, 12x digital zoom<br>Preset accuracy: 0.10°<br>300 preset positions, tour recording, guard tour, control queue, orientation aid PTZ, focus recall |

## System on chip (SoC)

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| **Model** | ARTPEC-7 |
| **Memory** | 1024 MB RAM, 512 MB Flash |
| **Compute capabilities** | Machine learning processing unit (MLPU) |

## Video

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| **Video compression** | H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles<br>H.265 (MPEG-H Part 2/HEVC) Main Profile<br>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<br>Axis Zipstream technology in H.264 and H.265<br>Controllable frame rate and bandwidth<br>VBR/ABR/MBR H.264/H.265<br>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)[a], 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 |

## Audio

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| **Audio features** | Network speaker pairing |
| **Audio output** | Output via network speaker pairing |

## Network

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| **Security** | IP address filtering, HTTPS[b] encryption, IEEE 802.1x (EAP-TLS)[b] network access control, user access log, centralized certificate management |
| **Network protocols** | IPv4/v6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS[b], TLS[b], 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

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| **Application Programming Interface** | Open API for software integration, including VAPIX® and AXIS Camera Application Platform, specifications at *axis.com*<br>One-click cloud connection<br>ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at *onvif.org* |
| **Event conditions** | Analytics, edge storage events, virtual inputs through API<br>Detectors: day/night mode, live stream accessed, shock detection<br>Hardware: fan, network, temperature<br>Input Signal: virtual inputs, manual trigger<br>MQTT subscribe<br>PTZ: autotracking, error, moving, preset reached, ready<br>Storage: disruption, recording<br>System: system ready<br>Time: use schedule |
| **Event actions** | Record video: SD card and network share<br>MQTT publish<br>Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email<br>Pre- and post-alarm video or image buffering for recording or upload<br>Notification: email, HTTP, HTTPS, and TCP<br>PTZ: PTZ preset, start/stop guard tour, autotracking<br>Overlay text, day/night mode |
| **Data streaming** | Event data |
| **Built-in installation aids** | Pixel counter<br>Automatic orientation |

## Analytics

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| **AXIS Object Analytics** | **Object classes**: humans, vehicles<br>**Features**: line crossing, object in area, crossline counting[BETA], time in area[BETA]<br>Up to 10 scenarios<br>Metadata visualized with color-coded bounding boxes<br>Polygon include/exclude areas<br>Perspective configuration<br>ONVIF Motion Alarm event |
| **Applications** | **Included**<br>AXIS Object Analytics, AXIS Video Motion Detection, autotracking, gatekeeper<br>**Supported**<br>Support for AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap* |

## Cybersecurity

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| **Edge security** | **Software:** Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption<br>**Hardware:** Axis Edge Vault cybersecurity platform<br>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)[b], IEEE 802.1AR, HTTPS/HSTS[b], TLS v1.2/v1.3[b], Network Time Security (NTS), X.509 Certificate PKI, IP address filtering |
| **Documentation** | *AXIS OS Hardening Guide*<br>*Axis Vulnerability Management Policy*<br>*Axis Security Development Model*<br>AXIS OS Software Bill of Material (SBOM)<br>To download documents, go to *axis.com/support/cybersecurity/resources*<br>To read more about Axis cybersecurity support, go to *axis.com/cybersecurity* |

## General

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| **Casing** | IP66-, IP68-, NEMA 4X- and IK10-rated aluminum casing<br>Color: urban grey NCS S 5502–B<br>Wiper included (silicone wiper blade) |
| **Sustainability** | PVC free |
| **Power** | High PoE 95 W midspan 1–port: 100–240 V AC, max 1.35 A<br>IEEE 802.3bt Type 4 Class 8<br>Camera consumption: typical 25 W, max 71 W |
| **Connectors** | RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE |
| **IR illumination** | OptimizedIR with power-efficient, long-life 850 nm IR LEDs<br>Range of reach 400 m (1300 ft) or more depending on the scene |
| **Storage** | Support for SD/SDHC/SDXC card<br>Support for SD card encryption (AES-XTS-Plain64 256bit)<br>Recording to network-attached storage (NAS)<br>For SD card and NAS recommendations, see *axis.com* |
| **Operating conditions** | -50 °C to 55 °C (-58 °F to 131 °F)<br>Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)<br>Arctic Temperature Control: Start-up as low as -40 °C (-40 °F)<br>Humidity: 10–100% RH (condensing)<br>Wind speed (sustained): 68 m/s (245 km/h, 150 mph)[c] |
| **Storage conditions** | -40 °C to 65 °C (-40 °F to 149 °F) |

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| **Approvals** | **EMC**<br>EN 55032 Class A, EN 50121-4, EN 61000-3-2, EN 61000-3-3, EN 55035, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(B), VCCI Class A, RCM AS/NZS CISPR 32 Class A, KS C 9832 Class A, KS C 9835<br>**Safety**<br>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<br>**Environment**<br>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<br>**Network**<br>NIST SP500-267<br>**Midspan:** EN 60950-1, GS, UL, cUL, CE, FCC, VCCI, CB |
| **Weight** | 8.7 kg (19.3 lb) |
| **Dimensions** | 210 x 330 x 313 mm (4 5/16 x 13 x 12 5/16 in)<br>Effective Projected Area (EPA): 0.071 $m^2$ |

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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 |
| **Optional accessories** | AXIS T95A64 Corner Bracket<br>AXIS T98A15-VE Media Converter Cabinet A<br>For more accessories, see *axis.com* |
| **Video management software** | AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at *axis.com/vms* |
| **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* |

a. *EIS and privacy masks cannot be used simultaneously.*
b. *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).*
c. *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).*