

# AXIS Q6078-E PTZ Camera

## Outdoor-ready PTZ with UHD 4K

AXIS Q6078-E PTZ Camera offers UHD 4K with 20x optical zoom for outstanding video quality. It offers great overviews and detail with the clearest, sharpest colors. This high-performance outdoor PTZ camera comes with autotracking 2 with click and track functionality, as well as an orientation aid for active object tracking and quick orientation. Featuring built-in cybersecurity such as signed firmware and secure boot it ensures the integrity and authenticity of the firmware. Axis Zipstream with H.264/ H.265 significantly reduces bandwidth and storage requirements. Furthermore, AXIS Object Analytics offers highly granular and nuanced object classification.

- > [UHD 4K with 20x optical zoom](#)
- > [Outstanding images with great details](#)
- > [Zipstream with support for H.264/H.265](#)
- > [AXIS Object Analytics](#)
- > [Built-in cybersecurity features](#)



# AXIS Q6078-E PTZ Camera

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| <b>Camera</b>                            |  |  |
| <b>Variants</b>                          | AXIS Q6078-E 50 Hz<br>AXIS Q6078-E 60 Hz   | PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready<br>Scheduled and recurring: scheduled event<br>Video: live stream open   |
| <b>Image sensor</b>                      | 1/2.5" progressive scan RGB CMOS   |  |
| <b>Lens</b>                              | 4.4–88.4 mm, F2.0–3.8<br>Horizontal field of view: 68.3°–4.2°<br>Vertical field of view: 42.1°–2.34°<br>Autofocus, P-iris control  |  |
| <b>Day and night</b>                     | Automatically removable infrared-cut filter  |  |
| <b>Minimum illumination</b>              | Color: 0.2 lux at 30 IRE, F2.0<br>B/W: 0.002 lux at 30 IRE, F2.0   |  |
| <b>Shutter speed</b>                     | 1/10000 s to 1 s   |  |
| <b>Pan/Tilt/Zoom</b>                     | Pan: 360° endless, 0.05°–450°/s<br>Tilt: 220°, 0.05°–450°/s<br>Zoom: 20x optical, 12x digital, total 240x zoom<br>E-flip, 256 preset positions, tour recording (max 10, max duration 16 minutes each), guard tour (max 100), control queue, on-screen directional indicator, orientation aid PTZ, set new pan 0°, adjustable zoom speed, focus recall  | <b>Event actions</b> Day/night mode, overlay text, video recording to edge storage, pre- and post-alarm video buffering, send SNMP trap<br>PTZ: PTZ preset, start/stop guard tour<br>File upload via FTP, SFTP, HTTP, HTTPS network share and email<br>MQTT publish<br>Notification via email, HTTP, HTTPS and TCP   |
| <b>System on chip (SoC)</b>              |  |  |
| <b>Model</b>                             | ARTPEC-7   |  |
| <b>Memory</b>                            | 2 GB RAM, 512 MB Flash   |  |
| <b>Compute capabilities</b>              | Machine learning processing unit (MLPU)  |  |
| <b>Video</b>                             |  |  |
| <b>Video compression</b>                 | 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  |  |
| <b>Resolution</b>                        | 3840x2160 4K 2160p to 320x180  |  |
| <b>Frame rate</b>                        | Up to 25/30 fps (50/60 Hz) in 4K<br>Up to 50/60 fps (50/60 Hz) in all other resolutions  |  |
| <b>Video streaming</b>                   | 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  | <b>AXIS Object Analytics</b> Object classes: humans, vehicles<br>Scenarios: line crossing, object in area, time in area<br>Up to 10 scenarios<br>Other features: triggered objects visualized with trajectories, color-coded bounding boxes and tables<br>Polygon include/exclude areas<br>Perspective configuration<br>ONVIF Motion Alarm event   |
| <b>Image settings</b>                    | Manual shutter time, compression, color, brightness, sharpness, WDR – dynamic contrast, white balance, exposure control, exposure zones, fine tuning of behavior at low light, rotation: 0°, 180°, text and image overlay, polygon privacy masks, electronic image stabilization (EIS), freeze on PTZ, defog, backlight compensation, scene profiles   | <b>Scene metadata</b> Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates<br>Object attributes: confidence, position   |
| <b>Network</b>                           |  |  |
| <b>Security</b>                          | IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1x (EAP-TLS) <sup>a</sup> network access control, user access log, centralized certificate management  | <b>Approvals</b>   |
| <b>Network protocols</b>                 | IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS <sup>a</sup> , TLS <sup>a</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, SSH, NTCIP, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf) | <b>EMC</b> EN 55032 Class A, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, EN 50121-4, IEC 62236-4<br><b>Australia/New Zealand:</b> RCM AS/NZS CISPR 32 Class A<br><b>Canada:</b> ICES-3(A)/NMB-3(A)<br><b>Japan:</b> VCCI Class A<br><b>Korea:</b> KCC KN32 Class A, KN35<br><b>USA:</b> FCC Part 15 Subpart B Class A  |
| <b>System integration</b>                |  | <b>Safety</b> IEC/EN/UL 60950-1, IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, IS 13252   |
| <b>Application Programming Interface</b> | Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="https://axis.com">axis.com</a><br>One-Click Cloud Connection<br>ONVIF <sup>®</sup> Profile G, ONVIF <sup>®</sup> Profile S and ONVIF <sup>®</sup> Profile T, specification at <a href="https://onvif.org">onvif.org</a>   | <b>Environment</b> IEC/EN 60529 IP66/IP67, NEMA TS 2 (2.2.7-2.2.9), IEC 62262 IK10, ISO 4892-2, EN 50121-4, IEC 62236-4, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-60, IEC 60068-2-78, NEMA 250 Type 4X   |
| <b>Event conditions</b>                  | 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<br>Edge storage: recording ongoing, storage disruption<br>I/O: manual trigger, virtual input<br>MQTT subscribe   | <b>Network</b> NIST SP500-267<br><b>Cybersecurity</b> ETSI EN 303 645, FIPS 140<br><b>Midspan:</b> EN 60950-1, GS, UL, cUL, CE, FCC, VCCI, CB, KCC, UL-AR  |
|  |  | <b>Cybersecurity</b>   |
|  |  | <b>Edge security</b> Software: Signed firmware, 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<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 |
|  |  | <b>Network security</b> IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) <sup>a</sup> , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS <sup>a</sup> , TLS v1.2/v1.3 <sup>a</sup> , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall  |
|  |  | <b>Documentation</b> <i>AXIS OS Hardening Guide</i><br><i>Axis Vulnerability Management Policy</i><br><i>Axis Security Development Model</i><br>AXIS OS Software Bill of Material (SBOM)<br>To download documents, go to <a href="https://axis.com/support/cybersecurity/resources">axis.com/support/cybersecurity/resources</a>   |

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

| General                     |   |
|-----------------------------|---|
| <b>Casing</b>               | IP66-, IP67-, NEMA 4X- and IK10-rated Metal casing (aluminum), polycarbonate (PC) clear dome, sunshield (ASA)   |
| <b>Sustainability</b>       | PVC free  |
| <b>Power</b>                | Axis High PoE 60 W SFP midspan: 100–240 V AC, max 66.1 W<br>Camera consumption: typical 16 W, max 51 W  |
| <b>Connectors</b>           | RJ45 10BASE-T/100BASE-TX PoE, RJ45 Push-pull Connector (IP66/IP67) included   |
| <b>Storage</b>              | Support for SD/SDHC/SDXC card<br>Support for SD card encryption (AES-XTS-Plain64 256bit)<br>Support for recording to network-attached storage (NAS)<br>For SD card and NAS recommendations see <a href="https://axis.com">axis.com</a>                                    |
| <b>Operating conditions</b> | With 30 W: -20 °C to 50 °C (-4 °F to 122 °F)<br>With 60 W: -50 °C to 50 °C (-58 °F to 122 °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) |

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| <b>Storage conditions</b>        | -40 °C to 65 °C (-40 °F to 149 °F)   |
| <b>Weight</b>                    | 3.75 kg (8.3 lb)   |
| <b>Dimensions</b>                | Ø232 x 271 mm (Ø9 1/8 x 10.7 in)   |
| <b>Included accessories</b>      | Axis High PoE 60 W SFP midspan 1-port, RJ45 Push-pull Connector (IP66), Sunshield<br>Installation Guide, Windows decoder 1-user license  |
| <b>Optional accessories</b>      | Smoked dome cover<br>AXIS T91 Mounting Accessories, AXIS T8415 Wireless Installation Tool, AXIS T90 Illuminators, AXIS T8310 Video Surveillance Control Board, multi-user decoder license pack |
| <b>Video management software</b> | AXIS Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on <a href="https://www.axis.com/vms">www.axis.com/vms</a>                |
| <b>Languages</b>                 | English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese           |
| <b>Warranty</b>                  | 5-year warranty, see <a href="https://axis.com/warranty">axis.com/warranty</a>   |

- a. *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).*