

# 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

<b>Camera</b>	
<b>Models</b>	AXIS Q6078-E 50 Hz AXIS Q6078-E 60 Hz
<b>Image sensor</b>	1/2.5" progressive scan RGB CMOS
<b>Lens</b>	4.4–88.4 mm, F2.0–3.8 Horizontal field of view: 68.3°–4.2° Vertical field of view: 42.1°–2.34° 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 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 Tilt: 220°, 0.05°–450°/s Zoom: 20x optical, 12x digital, total 240x zoom 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>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 H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG
<b>Resolution</b>	3840x2160 4K 2160p to 320x180
<b>Frame rate</b>	Up to 25/30 fps (50/60 Hz) in 4K 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 Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265
<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>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>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>System integration</b>	
<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> One-Click Cloud Connection 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>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 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: live stream open
<b>Event actions</b>	Day/night mode, overlay text, video recording to edge storage, pre- and post-alarm video buffering, send SNMP trap PTZ: PTZ preset, start/stop guard tour File upload via FTP, SFTP, HTTP, HTTPS network share and email MQTT publish Notification via email, HTTP, HTTPS and TCP
<b>Built-in installation aids</b>	Pixel counter, leveling guide
<b>Analytics</b>	
<b>AXIS Object Analytics</b>	Object classes: humans, vehicles Scenarios: line crossing, object in area, time in area Up to 10 scenarios Metadata visualized with trajectories, color-coded bounding boxes and tables Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
<b>Metadata</b>	Object data: Classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Confidence, position Event data: Producer reference, scenarios, trigger conditions
<b>Applications</b>	Included AXIS Object Analytics, AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, autotracking 2, active gatekeeper, AXIS OSDI Zones, Orientation Aid PTZ Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="https://axis.com/acap">axis.com/acap</a>
<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 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
<b>Network security</b>	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) <sup>a</sup> , IEEE 802.1AR, HTTPS/HSTS <sup>a</sup> , TLS v1.2/v1.3 <sup>a</sup> , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
<b>Documentation</b>	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> AXIS OS Software Bill of Material (SBOM) 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 <a href="https://axis.com/cybersecurity">axis.com/cybersecurity</a>
<b>General</b>	
<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 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 Support for SD card encryption (AES-XTS-Plain64 256bit) Support for recording to network-attached storage (NAS) 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) With 60 W: -50 °C to 50 °C (-58 °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)
<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F)

<b>Approvals</b>	<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, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A, KCC KN32 Class A, KN35 EN 50121-4, IEC 62236-4
	<b>Safety</b> IEC/EN/UL 60950-1 IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, IS 13252
	<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>Network</b> NIST SP500-267
	<b>Midspan:</b> EN 60950-1, GS, UL, cUL, CE, FCC, VCCI, CB, KCC, UL-AR
<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 Installation Guide, Windows decoder 1-user license
<b>Optional accessories</b>	Smoked dome cover 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="http://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="http://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).*