

# AXIS Q1798-LE Network Camera

## 4K without compromise

AXIS Q1798-LE features a powerful, ultra-high light-sensitive 4/3" image sensor that captures superior video and excellent details in resolutions up to 10 megapixels. Thanks to Axis Lightfinder 2.0, it delivers true colors in almost complete darkness. Including a Canon lens with focal length of 12-48 mm and horizontal field of view of 90°, it's ideal for wide, open areas such as airports, harbors or sports stadiums. It offers built-in analytics for proactive surveillance and includes audio in, Axis OptimizedIR, shock detection, auto-rotation as well as enhanced security functionality. Furthermore, Axis Zipstream supporting H.264/H.265 provides exceptional savings on bandwidth and storage requirements.

- > **4K / 10 MP resolutions**
- > **Ultra-high light-sensitive 4/3" sensor**
- > **12 – 48 mm Canon lens**
- > **Axis Lightfinder 2.0**
- > **Zipstream with support for H.264/H.265**



# AXIS Q1798-LE Network Camera

Camera	
<b>Image sensor</b>	4/3" back-illuminated color CMOS
<b>Lens</b>	Canon 12–48 mm, F1.7–4.0 4K Horizontal field of view: 90°–21° Vertical field of view: 49°–12° 10MP Horizontal field of view: 86°–20° Vertical field of view: 62°–15° Autofocus (zoom triggered), auto-iris, automatic day/night
<b>Day and night</b>	Automatically removable infrared-cut filter in day mode and infrared-band-pass filter 800–900 nm in night mode
<b>Minimum illumination</b>	Color: 0.03 lux at 50 IRE F1.7 B/W: 0.006 lux at 50 IRE F1.7, 0 lux with IR illumination on
<b>Shutter speed</b>	1/45500 s to 2 s
System on chip (SoC)	
<b>Model</b>	ARTPEC-7
<b>Memory</b>	2048 MB RAM, 512 MB Flash
<b>Compute capabilities</b>	Machine learning processing unit (MLPU)
Video	
<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>	3712x2784 10 MP to 160x90 3840x2160 4K to 160x90 Maximum pixel density with 4x optical zoom: 10 m (32 ft): 1036 px/m 25 m (82 ft): 414 px/m 50 m (164 ft): 207 px/m
<b>Frame rate</b>	4K: Up to 25/30 fps (50/60 Hz) 10 MP: Up to 20 fps (50/60 Hz)
<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 Low latency mode Video stream indicator
<b>Image settings</b>	Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, defogging, white balance, day/night threshold, exposure mode, exposure zones, compression, mirroring of images, electronic image stabilization, barrel distortion correction, text and image overlay, dynamic text and image overlay, privacy masks Rotation: auto, 0°, 90°, 180°, 270° including Corridor Format Scene profiles: forensic, vivid, traffic overview
<b>Pan/Tilt/Zoom</b>	4x optical zoom, preset positions
Audio	
<b>Audio streaming</b>	Audio in, simplex Two-way audio via edge-to-edge technology
<b>Audio encoding</b>	AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz, LPCM Configurable bit rate
<b>Audio input/output</b>	External microphone input, line input, digital input with ring power, balanced microphone, balanced input, automatic gain control Network speaker pairing
Network	
<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, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

System integration	
<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>Onscreen controls</b>	IR Illumination Electronic image stabilization Defogging Autofocus Wide dynamic range Video streaming indicator Day/night shift
<b>Event conditions</b>	Analytics, edge storage events MQTT subscribe Supervised external input, virtual inputs through API, shock detection, audio detection
<b>Event actions</b>	Pre- and post-alarm video buffering File upload: FTP, SFTP, HTTP, HTTPS, network share and email MQTT publish Notification: email, HTTP, HTTPS, TCP and SNMP trap
<b>Built-in installation aids</b>	Remote zoom, pixel counter, leveling assistant, autorotation
Analytics	
<b>AXIS Object Analytics</b>	Object classes: humans, vehicles Features: line crossing, object in area, crossline counting <sup>BETA</sup> , time in area <sup>BETA</sup> 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>	<b>Object data:</b> Classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Confidence, position <b>Event data:</b> Producer reference, scenarios, trigger conditions
<b>Applications</b>	<b>Included</b> AXIS Object Analytics, AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, active tampering alarm <b>Supported</b> AXIS Perimeter Defender, Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="https://axis.com/acap">axis.com/acap</a>
Cybersecurity	
<b>Edge security</b>	<b>Software:</b> Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption <b>Hardware:</b> Secure boot
<b>Network security</b>	IEEE 802.1X (EAP-TLS) <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>
General	
<b>Casing</b>	IP66-/IP67-, and NEMA 4X-rated, IK10 impact-resistant aluminum enclosure with integrated dehumidifying membrane, weathershield with black anti-glare coating Color: White NCS S 1002-B For repainting instructions of casing and impact on warranty, contact your Axis partner.
<b>Sustainability</b>	PVC free, 2% recycled plastic
<b>Power</b>	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 Typical 13.3 W, max 24.0 W 20–28 V DC, typical 12.9 W, max 23.2 W

	20–24 V AC, typical 19.4 V A, max 33.0 V A		IS 13252
<b>Connectors</b>	Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T IDC punchdown connector AC and DC Power connector Terminal block for two configurable supervised inputs / digital outputs (12 V DC output, max. load 50 mA) 3.5 mm mic/line in		<b>Environment</b> IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 62262 IK10, IEC/EN 60529 IP66/IP67, NEMA 250 Type 4X, NEMA TS 2 (2.2.7–2.2.9)
<b>IR illumination</b>	AXIS OptimizedIR with power-efficient, long-life 850 nm IR LED's with adjustable intensity. Range of reach more than 50 m (164 ft) in wide field of view and 100 m (328 ft) in full tele view, or more depending on the scene.	<b>Dimensions</b>	Length: 360 mm (14 11/64 in) ø 147 mm (5 13/16 in)
<b>Storage</b>	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see <a href="http://axis.com">axis.com</a>	<b>Weight</b>	2.55 kg (5.3 lb)
<b>Operating conditions</b>	-40 °C to 60 °C (-40 °F to 140 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Humidity 10–100% RH (condensing)	<b>Included accessories</b>	Installation Guide, Windows® decoder 1-user license, connector kit, Resistorx® L-key RJ45 patch cable
<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)	<b>Optional accessories</b>	AXIS T8604 Media Converter Switch AXIS T91B47 Pole Mount, AXIS T94P01B Corner Bracket For more accessories, see <a href="http://axis.com">axis.com</a>
<b>Approvals</b>	<b>EMC</b> EN 55032 Class A, EN 50121-4, IEC 62236-4, EN 55024, 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, EAC <b>Safety</b> IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, EN/IEC 62471	<b>Video management software</b>	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at <a href="http://axis.com/vms">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](http://openssl.org)), and cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).