

# 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	
Image sensor	4/3" back-illuminated color CMOS
Lens	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
Day and night	Automatically removable infrared-cut filter in day mode and infrared-band-pass filter 800–900 nm in night mode
Minimum illumination	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
Shutter speed	1/45500 s to 2 s
System on chip (SoC)	
Model	ARTPEC-7
Memory	2048 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	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
Frame rate	4K: Up to 25/30 fps (50/60 Hz) 10 MP: Up to 20 fps (50/60 Hz)
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 Video stream indicator
Image settings	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
Pan/Tilt/Zoom	4x optical zoom, preset positions
Audio	
Audio streaming	Audio in, simplex Two-way audio via edge-to-edge technology
Audio encoding	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
Audio input/output	External microphone input, line input, digital input with ring power, balanced microphone, balanced input, automatic gain control Network speaker pairing
Network	
Security	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
Network protocols	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	
Application Programming Interface	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>
Onscreen controls	IR Illumination Electronic image stabilization Defogging Autofocus Wide dynamic range Video streaming indicator Day/night shift
Event conditions	Analytics, edge storage events MQTT subscribe Supervised external input, virtual inputs through API, shock detection, audio detection
Event actions	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
Built-in installation aids	Remote zoom, pixel counter, leveling assistant, autorotation
Analytics	
AXIS Object Analytics	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
Metadata	Object data: Classes: humans, faces, vehicles, license plates Confidence, position Event data: Producer reference, scenarios, trigger conditions
Applications	Included AXIS Object Analytics, AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, active tampering alarm Supported 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	
Edge security	Software: Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Secure boot
Network security	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
Documentation	<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	
Casing	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.
Sustainability	PVC free, 2% recycled plastic
Power	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

<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>Network</b> NIST SP500-267
<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>	EMC 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 IS 13252	<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)).