

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, HTTPS¹ encryption, IEEE 802.1x (EAP-TLS)¹ network access control, user access log, centralized certificate management

Network protocols

IPv4, IPv6, USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS¹, TLS¹, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, PTP, 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® and AXIS Camera Application Platform; specifications at axis.com

One-click cloud connection

ONVIF® Profile G, ONVIF® Profile S, and

ONVIF® Profile T, specification at onvif.org

Video management systems

Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at axis.com/vms.

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

Applications

Included

AXIS Object Analytics, AXIS Scene Metadata, AXIS Video Motion Detection, active tampering alarm

Supported

AXIS Perimeter Defender, AXIS License Plate Verifier
Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap

AXIS Object Analytics

Object classes: humans, vehicles

Scenarios: line crossing, object in area, crossline counting, time in area

Up to 10 scenarios

Other features: triggered objects visualized with trajectories, color-coded bounding boxes and tables

Polygon include/exclude areas

Perspective configuration

ONVIF Motion Alarm event

AXIS Scene Metadata

Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates

Confidence, position

Cybersecurity

Edge security

Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 Client Credential Flow/OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption

Hardware: Secure boot

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)¹, IEEE 802.1AE (MACsec PSK/EAP-TLS), TLS v1.2/v1.3¹, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall

1. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (ey@cryptosoft.com).

Documentation

AXIS OS Hardening Guide

Axis Vulnerability Management Policy

Axis Security Development Model

AXIS OS Software Bill of Material (SBOM)

To download documents, go to axis.com/support/cybersecurity/resources

To read more about Axis cybersecurity support, go to axis.com/cybersecurity

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

Connectors

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

IR illumination

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.

Storage

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 axis.com

Operating conditions

–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)

Storage conditions

–40 °C to 65 °C (–40 °F to 149 °F)

Humidity 5–95% RH (non-condensing)

Approvals

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

Safety

IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, EN/IEC 62471
IS 13252

Environment

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)

Network

NIST SP500–267

Dimensions

Length: 360 mm (14 11/64 in)
ø 147 mm (5 13/16 in)

Weight

2.55 kg (5.3 lb)

Included accessories

Installation Guide, Windows® decoder 1-user license, connector kit, Resistorx® L-key
RJ45 patch cable

Optional accessories

AXIS T8604 Media Converter Switch
AXIS T91B47 Pole Mount, AXIS T94P01B Corner Bracket
For more accessories, see axis.com

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