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**

4K NETWORK VIDEO

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[1] 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,
HTTPS[1], TLS[1], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB,
SMTP, mDNS (Bonjour), UPnP®, 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®
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/v1.3[1],
Network Time Security (NTS), X.509 Certificate PKI,
host-based firewall

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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 (eay@cryptsoft.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 than50 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

AXIS®
COMMUNICATIONS

Warranty

5-year warranty, see *axis.com/warranty*