

# **AXIS Q1647 Network Camera**

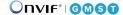
# 5 MP video with 1/2" sensor and i-CS lens

With AXIS Q1647 Network Camera it's easier than ever to capture everything. High resolution at full frame rate, i-CS lens, and 1/2" sensor ensures outstanding details and sharp images. Even in challenging or low light, Forensic WDR and Lightfinder ensures details will be discovered. To minimize vibrations, electronic image stabilization (EIS) keeps the image steady. AXIS Q1647 enables proactive surveillance with preinstalled AXIS Motion Guard and AXIS Fence Guard. Orientation aid enables street view and compass rose for quick orientation with multiple monitors, and Zipstream optimizes the video stream to maintain high video quality while saving bandwidth and storage.

- > 5 MP resolution at 25/30 fps
- > 1/2" sensor
- > Forensic WDR and Lightfinder
- > Electronic image stabilization (EIS)
- > AXIS Motion Guard and AXIS Fence Guard







# **AXIS Q1647 Network Camera**

## Camera

## Image sensor

1/2" progressive scan RGB CMOS

#### Lens

Varifocal, IR corrected, CS-mount 3.9–10.0 mm, F1.5 5.3 MP (16:9):

Horizontal field of view: 110°-44° Vertical field of view: 59°-24°

4 MP (16:9):

Horizontal field of view: 95°-38° Vertical field of view: 52°-21°

5 MP (4:3):

Horizontal field of view: 92°-37° Vertical field of view: 68°-27°

i-CS lens

## Day and night

Automatically removable infrared-cut filter

## Minimum illumination

5 MP 25/30 fps with WDR and Lightfinder: Color: 0.12 lux at 50 IRE, F1.5; B/W: 0.02 lux at 50 IRE, F1.5 4 MP 50/60 fps: Color: 0.24 lux at 50 IRE, F1.5, B/W; 0.04 lux at 50 IRE, F1.5

## Shutter speed

1/100000 to 2 s

## Pan/Tilt/Zoom

Digital PTZ, uploadable PTZ driver (Pelco D pre-installed)

# System on chip (SoC)

#### Model

ARTPEC-6

### Memory

1 GB RAM, 512 MB Flash

# Video

### Video compression

H.264 (MPEG-4 Part 10/AVC), Main, Baseline and High Profile Motion JPEG

### Resolution

3072x1728 to 320x180

### Frame rate

5 MP with WDR: 25/30 fps with power line frequency

50/60 Hz

4 MP without WDR: 50/60 fps with power line

frequency 50/60 Hz

## Video streaming

Multiple, individually configurable streams in H.264 and

Motion JPEG

Axis Zipstream technology in H.264 Controllable frame rate and bandwidth

VBR/ABR/MBR H.264

## Image settings

Saturation, contrast, brightness, sharpness, Forensic WDR – 120 dB, white balance, day/night threshold, exposure mode, exposure zones, compression, orientation: auto, 0°, 90°, 180°, 270° including corridor format, mirroring of images, dynamic text overlay, image overlay, privacy masks, defogging, noise reduction, electronic image stabilization, barrel distortion correction, orientation aid, fine tuning of behavior at low light

Scene profiles: forensic, vivid, traffic overview, backlit entrance

## **Audio**

### Audio streaming

Two-way, full duplex

## Audio encoding

AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate

# Audio input/output

External balanced/unbalanced microphone or line input, line output, built-in microphone, automatic gain control

24 bit AD/DA-conversion

# **Network**

## **Network protocols**

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS¹, TLS¹, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP<sup>TM</sup>, SNMPv1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SFTP, 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

AXIS Video Hosting System (AVHS) with One-Click Connection

**One-Click Cloud Connection** 

ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specifications 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.

### **Event conditions**

Analytics, external input, edge storage events, virtual inputs through API

Audio: audio detection

Device status: above operating temperature, above or below operating temperature, below operating temperature, IP address removed, network lost, new IP address, storage failure, system ready, within operating temperature

Edge storage: recording ongoing, storage disruption I/O: digital input, manual trigger, virtual input MQTT subscribe

PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready

Scheduled and recurring: scheduled event

Video: average bitrate degradation, day-night mode,

live stream open, tampering

### **Event actions**

File upload: FTP, SFTP, HTTPS, network share and

email, send video clip

Notification: email, HTTP, HTTPS and TCP

Overlay text, Send SNMP Trap

Video and audio recording to edge storage

Pre- and post-alarm video buffering

External output activation, day/night vision mode, play audio clip, status LED, WDR mode, defog mode, PTZ

control MQTT publish

## Data streaming

Event data

### **Built-in installation aids**

i-CS: Remote zoom and focus Other lens: Remote back focus

Traffic wizard, pixel counter, levelling assistant,

autorotation

# **Analytics**

## **Applications**

Included

AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard

AXIS Video Motion Detection, active tampering alarm, audio detection

## Supported

Support for additional applications if the device is used with compatible accessories. For more information, contact your Axis partner.

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

# **Approvals**

#### **EMC**

EN 55032 Class A, EN 61000-3-2, EN 61000-3-3,

EN 55024, EN 61000-6-1, EN 61000-6-2

Australia/New Zealand: RCM AS/NZS CISPR 32 Class A

Canada: ICES-003 Class A Japan: VCCI Class A

Korea: KCC KN32 Class A, KN35 USA: FCC Part 15 Subpart B Class A

# Safety

IEC/EN/UL 62368-1, 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

<sup>1.</sup> 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).

WWW. CXIS. COM T10102631/EN/M33.2/202504

### Network

NIST SP500-267

# Cybersecurity

## **Edge security**

Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection

## **Network security**

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)<sup>2</sup>, IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS<sup>2</sup>, TLS v1.2/v1.3<sup>2</sup>, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall

## **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

Metal (zinc)

Color lid: Silver - RAL 9006

Color chassi: Black - NCS S 9000-N

## Sustainability

PVC free

#### Power

Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 5.3 W, max 10.8 W 8–28 V DC, typical 6.4 W, max 11.2 W

# **Connectors**

Shielded RJ45 10BASE-T/100BASE-TX PoE I/O: 6-pin 2.5 mm terminal block for four configurable inputs/outputs (12 V DC output, max load 50 mA) RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block 3.5 mm mic/line in, 3.5 mm line out i-CS connector (compatible with P-Iris and DC-iris)

## Storage

Support for microSD/microSDHC/microSDXC 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 axis.com

## **Operating conditions**

-20 °C to 60 °C (-4 °F to 140 °F) Humidity 10–85% RH (non-condensing)

## Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)

### **Dimensions**

82 x 66 x 210 mm (3.23 x 2.60 x 8.25 in)

## Weight

950 g (2.1 lb)

### Included accessories

Stand, connector kit, resistorx® T20 tool, installation quide, Windows® decoder 1-user license

## **Optional lenses**

Fujinon Varifocal Lens 8-80 mm, DC-iris Lens CS 12-50 mm F1.4 P-Iris 8 MP Lens i-CS 9-50 mm F1.5 8 MP

## **Optional accessories**

AXIS T90B Illuminators, AXIS T92G Housings, AXIS T93F Housings, Axis network cable couplers, AXIS T8129 PoE Extender, AXIS T8415 Wireless Installation Tool, Axis midspans 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

<sup>2.</sup> 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).

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