AXIS ®
C O M M U N I C A T I O N S

AXIS Q1615 Mk III Network Camera
For analytics with deep learning

AXIS Q1615 Mk III combines exceptional imaging and video performance with outstanding hardware and processing capabilities to provide the perfect platform for analytics based on artificial intelligence (AI) with deep learning. A fixed box camera with Q-line functionality, it features an innovative dual chipset that is the basis for nuanced and remarkably granular object classification. This advanced hardware offers a unique opportunity to take advantage of tailor-made third-party applications based on deep learning. The dual chipset also makes it possible for preinstalled AXIS Object Analytics to distinguish between bikes, cars, buses, trucks, and so on.

> Powerful AI with deep learning

> Granular object classification

> Support for 3rd-party AI applications

> Edge-based processing for scalability

> Premium Axis Q-line camera features

ONVIF® | **GMST**

HDTV
NETWORK VIDEO

AXIS Q1615 Mk III Network Camera

Camera

Image sensor	1/2.8" Progressive scan RGB CMOS
Lens	Varifocal, IR corrected, CS-mount **2 MP (16:9):** 2.8–8.5 mm, F1.2 Horizontal field of view: 116°–40° Vertical field of view: 61°–22° i-CS lens
Day and night	Automatically removable infrared-cut filter
Minimum illumination	HDTV 1080p 25/30 fps with Forensic WDR and Lightfinder: Color: 0.05 lux, B/W: 0.01 lux at 50 IRE, F1.2 HDTV 1080p 50/60 fps with Forensic WDR and Lightfinder: Color: 0.1 lux, B/W: 0.02 lux at 50 IRE, F1.2 HDTV 1080p 100/120 fps: Color: 0.2 lux, B/W: 0.04 lux at 50 IRE, F1.2
Shutter speed	1/125000 to 2 s

System on chip (SoC)

Model	ARTPEC-7
Memory	2048 MB RAM, 1024 MB Flash
Compute capabilities	Deep learning processing unit (DLPU)

Video

Video compression	H.264 (MPEG-4 Part 10/AVC), Main, Baseline and High Profile H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG
Resolution	HDTV 1080p 100/120 fps (no WDR): 1920x1080 to 160x90 HDTV 1080p 50/60 fps (WDR):1920x1080 to 160x90 HDTV 1080p 25/30 fps (WDR): 1920x1080 to 160x90
Frame rate	Up to 100/120 fps (50/60 Hz) in 1080p (no WDR)
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 streaming indicator
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, white balance, day/night threshold, tone mapping, local contrast, exposure mode, exposure zones, defogging, electronic image stabilization, barrel distortion correction, compression, rotation: auto, 0°, 90°, 180°, 270° including Corridor Format, dynamic text and image overlay, polygon privacy mask, mirroring of images Scene profiles: forensic, vivid, traffic overview
Pan/Tilt/Zoom	Digital PTZ, uploadable PTZ driver (Pelco D pre-installed)

Audio

Audio streaming	Two-way, full duplex
Audio encoding	24bit LPCM, AAC-LC 8/16/32/44.1/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate
Audio input/output	External microphone input, line input, digital input with ring power, built-in microphone (can be disabled), balanced microphone, balanced input, automatic gain control, line output 24 bit AD/DA-conversion

Network

Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS, TLS, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP™, 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®, metadata, and AXIS Camera Application Platform (ACAP); specifications at *axis.com/developer-community*. ACAP includes Native SDK and Computer Vision SDK. One-click cloud connection

	ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S and ONVIF® Profile T, specifications at *onvif.org*
Onscreen controls	Electronic image stabilization Day/night shift Defogging Wide dynamic range Video streaming indicator
Event conditions	Analytics, external input, supervised 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, shock detection, ring power overcurrent protection, 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: live stream open
Event actions	MQTT publish Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP and SNMP trap PTZ: PTZ preset, start/stop guard tour Overlay text, external output activation, play audio clip, zoom preset, defog mode, PTZ control
Built-in installation aids	Focus assistant, pixel counter, leveling assistant, camera orientation aid, traffic wizard i-CS: Remote zoom and focus Other lens: Remote back focus

Analytics

Applications	Included AXIS Live Privacy Shield, AXIS Object Analytics, Scene metadata AXIS Video Motion Detection, active tampering alarm, audio detection 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*
AXIS Object Analytics	**Object classes**: humans, vehicles (types: cars, buses, trucks, bikes) **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
Scene metadata	**Object classes**: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Confidence, position

Cybersecurity

Edge security	**Software:** Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption **Hardware:** Axis Edge Vault cybersecurity platform TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), secure keystore, secure boot
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS, TLS v1.2/v1.3, 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	Casing: Metal (zinc) Color lid: Silver RAL 9006 Color chassi: Black - NCS S 9000-N
Mounting	¼"-20 tripod screw thread Camera stand included
Sustainability	PVC free, BFR/CFR free
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3, max 12.95 W, typical 8.2 W 10–28 V DC, max 12.1 W, typical 8.3 W Power redundancy
Connectors	Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE DC input I/O: 6-pin 2.5 mm terminal block for four configurable inputs/outputs(12 V DC output, max load 50 mA). Two of the ports can be supervised. 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) AXIS T92G20 connector
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	-10 °C to 55 °C (14 °F to 131 °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)
Approvals	EMC EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 55035, EN 61000-6-1, EN 61000-6-2,

FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), VCCI Class A, RCM AS/NZS CISPR 32 Class A, EAC, KCC KN32 Class A, KN35
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
Network
NIST SP500-267

Dimensions	82 x 58 x 195 mm (3.2 x 2.3 x 7.7 in)
Weight	1120 g (2.5 lb)
Included accessories	Stand Connector kit, Resistorx® T20 tool, Installation Guide, Windows® decoder 1-user license
Optional lenses	Lens CS 4–10 mm F0.9 P-Iris Ricom 2MP Lens DC-iris 8-26 mm F0.9 Fujinon Varifocal Lens 8-80 mm, DC-iris Lens i-CS 9–50 mm F1.5 8 MP Lens CS 12–50 mm F1.4 P-Iris 8 MP
Optional accessories	Axis mounts, Axis lenses, Axis midspans, Axis microphones AXIS TQ1809-LE Housing T92G AXIS T92E20 Outdoor Housing AXIS T8355 Digital Microphone For more accessories, see *axis.com*
Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at *axis.com/vms*
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*
Export control	The product contains U.S.-origin controlled technology/component, the US Export Administration Regulations (EAR) are always applicable to the product. You should comply at all times with all applicable national and international (re-) export control regulations.

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COMMUNICATIONS