

AXIS Q1615-LE Mk III Network Camera

For analytics with deep learning

AXIS Q1615-LE 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





AXIS Q1615-LE 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: 102°–40° Vertical field of view: 58°–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 0 lux with IR illumination on
Shutter speed	1/125000 to 2 s
System on chip	(SoC)
 Vodel	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
lmage 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°, 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 Audio encoding	Two-way, full duplex 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, balanced microphone, balanced input, automatic gain control, line output 24 bit AD/DA-conversion
Network	
Security	IP address filtering, HTTPS ^a encryption, IEEE 802.1x (EAP-TLS) ^a network access control, user access log, centralized certificate management
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS ^a , TLS ^a , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP TM , SNMPv1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SFTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMF DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

Application	Open API for software integration, including VAPIX® and
Programming Interface	AXIS Camera Application Platform; specifications at axis.com 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 storag events, virtual inputs through API
	Audio: audio detection Device status: above operating temperature, above or below
	operating temperature, below operating temperature, casing open, 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, networ 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	
AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks, bikes)
Analytics	Features: line crossing, object in area, crossline counting $^{\text{BETA}}$, time in area $^{\text{BETA}}$
	Up to 10 scenarios Metadata visualized with trajectories, color-coded bounding
	boxes and tables Polygon include/exclude areas
	Perspective configuration
Metadata	ONVIF Motion Alarm event Object data: Classes: humans, faces, vehicles (types: cars, buse
	trucks, bikes), license plates Confidence, position
	Event data: Producer reference, scenarios, trigger conditions
Applications	Included AXIS Object Analytics
	AXIS Video Motion Detection, active tampering alarm, audio detection
	Supported
	AXIS Perimeter Defender Support for AXIS Camera Application Platform enabling
.	installation of third-party applications, see axis.com/acap
Cybersecurity Edge security	Software: Signed firmware brute force delay protection diago
Lage security	Software: Signed firmware, brute force delay protection, diges authentication, 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

Axis Vulnerability Management Policy
Axis Security Development Model
AXIS OS Software Bill of Material (SBOM)
To download documents, go to axis.com/support/cybersecu- rity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity

_

	uxis.com/cyocisccurry
General	
Casing	IP66-, IP67-, and NEMA 4X-rated, IK10 impact resistant aluminum enclosure Weathershield with black anti-glare coating Color: White NCS S 1002-B Intrusion alarm switch
Mounting	¹ /4"-20 tripod screw thread Camera stand included
Sustainability	PVC free
Power	Power over Ethernet IEEE 802.3at Type 2 Class 4, max. 25.5 W, typical 13.7 W
IR illumination	OptimizedIR with power-efficient, long-life 850 nm IR LEDs Range of reach 60 m (196 ft) or more depending on the scene
Connectors	Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE 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)
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 <i>axis.com</i>
Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) with PoE 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 50121-4, IEC 62236-4, 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, IEC/EN/UL 60950-22, IS 13252, CAN/CSA C22.2 No. 62368-1, IEC 62471 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 60529 IP66/IP67, IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9) Network
Dimensions	NIST SP500-267 201 x 179 x 494 mm (7.9 x 7.1 x 19.4 in)
Weight	6965 g (15.4 lb)
Included accessories	AXIS T94Q01A Wall Mount, Sunshield 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 For more accessories, see <i>axis.com</i>
Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at <i>axis.com/vms</i>
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.Sorigin controlled technology/compo- nent, 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.
a. This product inclu	udes software developed by the OpenSSL Project for use in the

a. 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).

