

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		Video	Compatible with AXIS Camera Station Edge, AXIS Camera Statio	
Image sensor	1/2.8" Progressive scan RGB CMOS	management	Pro, AXIS Camera Station 5, and video management software	
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	systems Onscreen controls	from Axis' partners available at axis.com/vms. Electronic image stabilization Day/night shift Defogging Wide dynamic range Video streaming indicator	
Day and night	Automatically removable infrared-cut filter	Event conditions		
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		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 U/O divisioned temperature input to be address.	
Shutter speed	1/125000 to 2 s		I/O: digital input, manual trigger, virtual input MQTT subscribe	
System on chip	(SoC)		PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position	
Model	ARTPEC-7		reached, PTZ ready Scheduled and recurring: scheduled event	
Memory	2048 MB RAM, 1024 MB Flash		Video: live stream open	
Compute capabilities	Deep learning processing unit (DLPU)	Event actions MQTT publish Record video: SD card and network share		
Video			Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network	
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		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	
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)	Built-in	Focus assistant, pixel counter, leveling assistant, camera	
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Axis Zipstream technology in H.264 and H.265	installation aids	orientation aid, traffic wizard i-CS: Remote zoom and focus Other lens: Remote back focus	
	Controllable frame rate and bandwidth	Analytics		
	VBR/ABR/MBR H.264/H.265 Low latency mode Video streaming indicator	Applications	Included AXIS Object Analytics, AXIS Scene Metadata, AXIS Live Privacy Shield	
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		AXIS Video Motion Detection, active tampering alarm, audio detection Supported AXIS Perimeter Defender AXIS License Plate Verifier Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
Pan/Tilt/Zoom	Digital PTZ, uploadable PTZ driver (Pelco D pre-installed)	AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks, bikes, other)	
Audio	Digital Fiz, uploadable Fiz driver (Ferco D pre-instancu)	Analytics	Scenarios: line crossing, object in area, crossline counting, time	
	Two-way, full duplex		in area	
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		Up to 10 scenarios Other features: Triggered objects visualized with trajectories, color-coded bounding boxes and tables Polygon include/exclude areas Perspective configuration	
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	AXIS Scene Metadata	ONVIF Motion Alarm event Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates	
Network			Confidence, position	
Network	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS ^a , TLS ^b ,	Approvals		
protocols	QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnPTM, 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)	EMC	EN 50121-4, EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 55035, EN 61000-6-1, EN 61000-6-2, EAC Australia/New Zealand: RCM AS/NZS CISPR 32 Class A Canada: ICES-3(A)/NMB-3(A) Japan: VCCI Class A	
System integra	tion		Korea: KCC KN32 Class A, KN35 USA: FCC Part 15 Subpart B Class A	
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at <i>axis.com</i> One-click cloud connection	Safety	Railway: IEC 62236-4 IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IS 13252,	
	ONVIF [®] Profile G, ONVIF [®] Profile M, ONVIF [®] Profile S and ONVIF [®] Profile T, specifications at <i>onvif.org</i>		CAN/CSA C22.2 No. 62368-1, IEC 62471	

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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)
Wireless	EN 300328, EN 301489-1, EN 301489-17, EN 301893, FCC Part 15 Subpart C, FCC Part 15 Subpart E, RSS-247, TELEC
Network	NIST SP500-267
Cybersecurity	ETSI EN 303 645, BSI IT Security Label, FIPS 140
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, 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) ^C , IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS ^d , TLS v1.2/v1.3 ^e , 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/cybersecu- rity/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 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)
Dimensions	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>
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.
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