

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







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A lo oli D	Application	Open API for software integration, including VAPIX® and	
1/2.8" Progressive scan RGB CMOS	Programming Interface	AXIS Camera Application Platform; specifications at axis.com AXIS Guardian with One-Click Connection	
Varifocal, IR corrected, CS-mount 2 MP (16:9): 2.8–8.5 mm, F1.2 Horizontal field of view: 102°-40°	interrace	One-click cloud connection ONVIF® Profile G, ONVIF® Profile S and ONVIF® Profile T, specifications at <i>onvif.org</i>	
Vertical field of view: 58°-22° i-CS lens	Onscreen controls	Electronic image stabilization Day/night shift Defogging	
Automatically removable infrared-cut filter	_	Wide dynamic range	
Alinimum Ilumination 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	
1/125000 to 2 s		detection, ring power overcurrent protection, storage failure,	
(SoC)		system ready, within operating temperature Edge storage: recording ongoing, storage disruption	
ARTPEC-7		I/O: digital input, manual trigger, virtual input	
2048 MB RAM, 1024 MB Flash		MQTT subscribe	
		PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready	
step rearring processing anne (82. 8)		Scheduled and recurring: scheduled event	
		Video: live stream open	
H.264 (MPEG-4 Part 10/AVC), Main, Baseline and High Profile H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	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	
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			
Up to 100/120 fps (50/60 Hz) in 1080p (no WDR)		PTZ: PTZ preset, start/stop guard tour	
Multiple, individually configurable streams in H.264, H.265 and		Overlay text, external output activation, play audio clip, zoom preset, defog mode, PTZ control	
Motion JPEG Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Video streaming indicator	Data streaming Built-in installation aids	Event data Focus assistant, pixel counter, leveling assistant, camera orientation aid, traffic wizard i-CS: Remote zoom and focus	
Saturation, contrast, brightness, sharpness, Forensic WDR: Up to		Other lens: Remote back focus	
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	Analytics AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks, bikes) Trigger conditions: line crossing, object in area Up to 10 scenarios Metadata visualized with color-coded bounding boxes	
Digital PTZ, uploadable PTZ driver (Pelco D pre-installed)		Polygon include/exclude areas Perspective configuration	
		ONVIF Motion Alarm event	
Two-way, full duplex	Applications	Included	
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	AXIS Object Analytics AXIS Video Motion Detection, active tampering alarm, aud detection Supported		
External microphone input, line input, digital input with ring power, balanced microphone, balanced input, automatic gain control, line output 24 hit AD/DA-conversion		AXIS Perimeter Defender Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
		IDCC IDC7 and NEMA 4V noted 1//40 immed marks	
Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1x (EAP-TLS) ^a network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware, secure boot, protection of cryptographic keys with FIPS 140-2 certified TPM 2.0 module	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	
IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS ^a , TLS ^a , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP™, SNMPv1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, SFTP, SFTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, APB, SOCKS, SSL, LLDP, CDP, MOTT, v3, 1, 1, 5 vr[ac, Link, Local, v3, 1, 1, 5 vr[ac, Link, Local, v4, 1, 1, 5 vr[ac, Link, Local, v6, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Sustainability	PVC free	
	Power	Power over Ethernet IEEE 802.3at Type 2 Class 4, max. 25.5 W,	
	IR illumination	typical 13.7 W OptimizedIR with power-efficient, long-life 850 nm IR LEDs	
	Varifocal, IR corrected, CS-mount 2 MP (16:9): 2.8-8.5 mm, Fl.2 Horizontal field of view: 58°-22° i-CS lens Automatically removable infrared-cut filter HDTV 1080p 25/30 fps with Forensic WDR and Lightfinder: Color: 0.05 lux, B/W: 0.01 lux at 50 IRE, Fl.2 HDTV 1080p 50/60 fps with Forensic WDR and Lightfinder: Color: 0.1 lux, B/W: 0.02 lux at 50 IRE, Fl.2 HDTV 1080p 100/120 fps: Color: 0.2 lux, B/W: 0.04 lux at 50 IRE, Fl.2 Color: 0.2 lux, B/W: 0.04 lux at 50 IRE, Fl.2 O lux with IR illumination on 1/125000 to 2 s (SoC) ARTPEC-7 2048 MB RAM, 1024 MB Flash Deep learning processing unit (DLPU) H.264 (MPEG-4 Part 10/AVC), Main, Baseline and High Profile H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG 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 HDTV 1080p 50/60 fps (WDR): 1920x1080 to 160x90 Up to 100/120 fps (50/60 Hz) in 1080p (no WDR) 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 Video streaming indicator 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 Digital PTZ, uploadable PTZ driver (Pelco D pre-installed) 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 External microphone input, line input, digital input with ring power, balanced microphone, balanced input, automatic gain control, line output 24 bit AD/DA-conversion	Avairfocal, IR corrected, CS-mount 2 MP (16:9): 2 MP (16:9): 2 B-8.5 mm, F1.2 Horizontal field of view: 58"-22" i-CS lens Automatically removable infrared-cut filter HDTV 1080p 25/30 fps with Forensic WDR and Lightfinder: Color: 0.015 lux, B/W: 0.02 lux at 50 IRE, F1.2 HDTV 1080p 50/60 fps with Forensic WDR and Lightfinder: Color: 0.10 k, B/W: 0.02 lux at 50 IRE, F1.2 HDTV 1080p 100/120 fps: Color: 0.2 lux, B/W: 0.02 lux at 50 IRE, F1.2 HDTV 1080p 100/120 fps: Color: 0.2 lux, B/W: 0.02 lux at 50 IRE, F1.2 Olux with IR illumination on 1/125000 to 2 s (SoC) ARIPEC-7 2048 MB RAM, 1024 MB Flash Deep learning processing unit (DLPU) H .264 (MPEG-4 Part 10/AVC), Main, Baseline and High Profile H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG HDTV 1080p 100/120 fps (no WDR): 1920x1080 to 160x90 HDTV 1080p 05/60 fps (WDR): 1920x1080 to 160x90 HDTV 1080p 05/60 fps (WDR): 1920x1080 to 160x90 HDTV 1080p 05/60 fps (WDR): 1920x1080 to 160x90 HDTV 1080p 100/120 fps (60)f60 Hz) in 1080p (no WDR) Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Avis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Video streaming indicator 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°, 9°, 180°, 270°, dynamic text and image overlay, polygon privacy mask, mirroring of images Seene profiles: forensic, vivid, traffic overview Digital PTZ, uploadable PTZ driver (Pelco D pre-installed) Two-way, full duplex 24 bit AD/DA-conversion General Casing Applications Applications Applications Applications Password protection in past, line input, digital input with ring power, balanced mirrophone, balanced input, automatic gain control, line output 24 bit AD/DA-conversion Password protection, IP address filtering, HTTPS ^a	

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	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 axis.com
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, 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 NIST SP500-267

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 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
Warranty	5-year warranty, see axis.com/warranty
Export control	The product contains U.Sorigin 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.

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).

Environmental responsibility:

axis.com/environmental-responsibility

