

# 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](#)



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<b>Camera</b>		<b>Video management systems</b>	Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at <a href="http://axis.com/vms">axis.com/vms</a> .
<b>Image sensor</b>	1/2.8" Progressive scan RGB CMOS	<b>Onscreen controls</b>	Electronic image stabilization Day/night shift Defogging Wide dynamic range Video streaming indicator
<b>Lens</b>	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	<b>Event conditions</b>	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
<b>Day and night</b>	Automatically removable infrared-cut filter	<b>Event actions</b>	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
<b>Minimum illumination</b>	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	<b>Built-in installation aids</b>	Focus assistant, pixel counter, leveling assistant, camera orientation aid, traffic wizard i-CS: Remote zoom and focus Other lens: Remote back focus
<b>Shutter speed</b>	1/125000 to 2 s	<b>Analytics</b>	
<b>System on chip (SoC)</b>		<b>Applications</b>	Included AXIS Object Analytics, AXIS Scene Metadata, AXIS Live Privacy Shield 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 <a href="http://axis.com/acap">axis.com/acap</a>
<b>Model</b>	ARTPEC-7	<b>AXIS Object Analytics</b>	Object classes: humans, vehicles (types: cars, buses, trucks, bikes, other) 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
<b>Memory</b>	2048 MB RAM, 1024 MB Flash	<b>AXIS Scene Metadata</b>	Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Confidence, position
<b>Compute capabilities</b>	Deep learning processing unit (DLPU)	<b>Cybersecurity</b>	
<b>Video</b>		<b>Edge security</b>	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
<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC), Main, Baseline and High Profile H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	<b>Network security</b>	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
<b>Resolution</b>	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		
<b>Frame rate</b>	Up to 100/120 fps (50/60 Hz) in 1080p (no WDR)		
<b>Video streaming</b>	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		
<b>Image settings</b>	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		
<b>Pan/Tilt/Zoom</b>	Digital PTZ, uploadable PTZ driver (Pelco D pre-installed)		
<b>Audio</b>			
<b>Audio streaming</b>	Two-way, full duplex		
<b>Audio encoding</b>	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		
<b>Audio input/output</b>	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		
<b>Network</b>			
<b>Network protocols</b>	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)		
<b>System integration</b>			
<b>Application Programming Interface</b>	Open API for software integration, including VAPIX®, metadata, and AXIS Camera Application Platform (ACAP); specifications at <a href="http://axis.com/developer-community">axis.com/developer-community</a> . One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S and ONVIF® Profile T, specifications at <a href="http://onvif.org">onvif.org</a>		

<b>Documentation</b>	<p><i>AXIS OS Hardening Guide</i>  <i>Axis Vulnerability Management Policy</i>  <i>Axis Security Development Model</i>            AXIS OS Software Bill of Material (SBOM)            To download documents, go to <a href="https://axis.com/support/cybersecurity/resources">axis.com/support/cybersecurity/resources</a>            To read more about Axis cybersecurity support, go to <a href="https://axis.com/cybersecurity">axis.com/cybersecurity</a></p>	<b>Approvals</b>	<p>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  <b>Safety</b>            IEC/EN/UL 62368-1, IS 13252  <b>Environment</b>            IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14,            IEC 60068-2-27, IEC 60068-2-78  <b>Network</b>            NIST SP500-267</p>
<b>General</b>		<b>Dimensions</b>	82 x 58 x 195 mm (3.2 x 2.3 x 7.7 in)
<b>Casing</b>	<p>Casing: Metal (zinc)            Color lid: Silver RAL 9006            Color chassi: Black - NCS S 9000-N</p>	<b>Weight</b>	1120 g (2.5 lb)
<b>Mounting</b>	<p>¼"-20 tripod screw thread            Camera stand included</p>	<b>Included accessories</b>	<p>Stand            Connector kit, Resistorx® T20 tool, Installation Guide, Windows®            decoder 1-user license</p>
<b>Sustainability</b>	PVC free, BFR/CFR free	<b>Optional lenses</b>	<p>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</p>
<b>Power</b>	<p>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</p>	<b>Optional accessories</b>	<p>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 <a href="https://axis.com">axis.com</a></p>
<b>Connectors</b>	<p>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</p>	<b>Languages</b>	<p>English, German, French, Spanish, Italian, Russian, Simplified            Chinese, Japanese, Korean, Portuguese, Traditional Chinese,            Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese</p>
<b>Storage</b>	<p>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 <a href="https://axis.com">axis.com</a></p>	<b>Warranty</b>	5-year warranty, see <a href="https://axis.com/warranty">axis.com/warranty</a>
<b>Operating conditions</b>	<p>-10 °C to 55 °C (14 °F to 131 °F)            Humidity 10-85% RH (non-condensing)</p>	<b>Export control</b>	<p>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.</p>
<b>Storage conditions</b>	<p>-40 °C to 65 °C (-40 °F to 149 °F)            Humidity 5-95% RH (non-condensing)</p>		