

# 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](#)



# AXIS Q1615 Mk III Network Camera

<b>Camera</b>		<b>Application Programming Interface</b>	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <a href="http://axis.com">axis.com</a>
<b>Image sensor</b>	1/2.8" Progressive scan RGB CMOS	<b>Onscreen controls</b>	AXIS Guardian with One-Click Connection 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>Lens</b>	Varifocal, IR corrected, CS-mount <b>2 MP (16:9):</b> 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>	Electronic image stabilization Day/night shift Defogging Wide dynamic range Video streaming indicator
<b>Day and night</b>	Automatically removable infrared-cut filter	<b>System on chip (SoC)</b>	
<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>Model</b>	ARTPEC-7
<b>Shutter speed</b>	1/125000 to 2 s	<b>Memory</b>	2048 MB RAM, 1024 MB Flash
<b>System on chip (SoC)</b>		<b>Compute capabilities</b>	Deep learning processing unit (DLPU)
<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>Video</b>	
<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>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 Video streaming indicator
<b>Frame rate</b>	Up to 100/120 fps (50/60 Hz) in 1080p (no WDR)	<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>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 Video streaming indicator	<b>Pan/Tilt/Zoom</b>	Digital PTZ, uploadable PTZ driver (Pelco D pre-installed)
<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>Audio</b>	
<b>Pan/Tilt/Zoom</b>	Digital PTZ, uploadable PTZ driver (Pelco D pre-installed)	<b>Audio streaming</b>	Two-way, full duplex
<b>Audio</b>		<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 streaming</b>	Two-way, full duplex	<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>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>Network</b>	
<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>Security</b>	Password protection, IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1x (EAP-TLS) <sup>a</sup> 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
<b>Network</b>		<b>Supported protocols</b>	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS <sup>a</sup> , SSL/TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP <sup>TM</sup> , SNMPv1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, SFTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)
<b>System integration</b>		<b>Applications</b>	<b>Included</b> AXIS Object Analytics 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>System integration</b>		<b>General</b>	
<b>System integration</b>		<b>Casing</b>	Casing: Metal (zinc) Color lid: Silver RAL 9006 Color chassis: Black - NCS S 9000-N
<b>System integration</b>		<b>Mounting</b>	¼"-20 tripod screw thread Camera stand included
<b>System integration</b>		<b>Sustainability</b>	PVC free, BFR/CFR free
<b>System integration</b>		<b>Power</b>	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
<b>System integration</b>		<b>Connectors</b>	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
<b>Storage</b>	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="http://axis.com">axis.com</a>
<b>Operating conditions</b>	-10 °C to 55 °C (14 °F to 131 °F) Humidity 10-85% RH (non-condensing)
<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
<b>Approvals</b>	<b>EMC</b> 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 <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
<b>Dimensions</b>	82 x 58 x 195 mm (3.2 x 2.3 x 7.7 in)
<b>Weight</b>	1120 g (2.5 lb)

<b>Included accessories</b>	Stand Connector kit, Resistorx® T20 tool, Installation Guide, Windows® decoder 1-user license
<b>Optional lenses</b>	Lens CS 12-50 mm F1.4 P-Iris 8 MP Lens i-CS 3.9-10 mm F1.5 5 MP Lens i-CS 9-50 mm F1.5 8 MP Ricom 2 MP Lens DC-iris 8-26 mm F0.9
<b>Optional accessories</b>	Axis mounts, Axis lenses, Axis midspans, Axis microphones AXIS T92G20 Outdoor Housing AXIS T92E20 Outdoor Housing AXIS T8355 Digital Microphone For more accessories, see <a href="http://axis.com">axis.com</a>
<b>Video management software</b>	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at <a href="http://axis.com/vms">axis.com/vms</a>
<b>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
<b>Warranty</b>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>
<b>Export control</b>	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.

- a. *This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit ([openssl.org/](http://openssl.org/)), and cryptographic software written by Eric Young ([eyay@cryptsoft.com](mailto:eyay@cryptsoft.com)).*

Environmental responsibility:

[axis.com/environmental-responsibility](http://axis.com/environmental-responsibility)