

AXIS Q1645 Network Camera

High-speed video with 1/2" sensor and i-CS lens

With AXIS Q1645 Network Camera it's easier than ever to capture details even in challenging lighting or low light. The 1/2" sensor and i-CS lens ensure sharp images in high resolution at full frame rate, and with Forensic WDR and Lightfinder, AXIS Q1645 provides superior light sensitivity and excellent image usability. AXIS Q1645 enables proactive surveillance with preinstalled AXIS Motion Guard and AXIS Fence Guard, and orientation aid with compass rose and street names for quick orientation with multiple monitors. Zipstream optimizes the video stream to maintain high video quality while saving bandwidth and storage.

- > HDTV 1080p/2 MP resolution at up to 100/120 fps
- > 1/2" sensor
- > Forensic WDR and Lightfinder
- > Electronic image stabilization (EIS)
- > AXIS Motion Guard and AXIS Fence Guard







AXIS Q1645 Network Camera

Comora			
Camera Image sensor	1/2" progressive scan RGB CMOS		
Lens			
Lens	Varifocal, IR corrected, CS-mount 3.9–10.0 mm, F1.5		
	2 MP (16:9):		
	Horizontal field of view: 109°–42° Vertical field of view: 58°–23°		
	i-CS lens		
Day and night	Automatically removable infrared-cut filter		
Minimum	1080p 25/30 fps with WDR and Lightfinder:		
illumination	Color: 0.05 lux, at 50 IRE F1.5, B/W: 0.01 lux, at 50 IRE F1.5 1080p 50/60 fps with WDR and Lightfinder:		
	Color: 0.1 lux, at 50 IRE F1.5, B/W: 0.02 lux, at 50 IRE F1.5		
	1080p 100/120 fps:		
	Color: 0.2 lux, at 50 IRE F1.5, B/W: 0.04 lux, at 50 IRE F1.5 1080p 25/30 fps with WDR and Lightfinder:		
	Color: 0.02 lux, at 50 IRE F0.9, B/W: 0.004 lux, at 50 IRE F0.9		
Shutter speed	1/143000 to 1 s		
Pan/Tilt/Zoom	Digital PTZ, uploadable PTZ driver (Pelco D pre-installed)		
System on chip	(SoC)		
Model	ARTPEC-6		
Memory	1 GB RAM, 512 MB Flash		
Video			
Video	H.264 (MPEG-4 Part 10/AVC), Main, Baseline and High Profile		
compression	Motion JPEG		
Resolution	1920x1080 to 320x180		
Frame rate	HDTV 1080p (1920x1080) with WDR: Up to 50/60 fps with power line frequency 50/60 Hz		
	HDTV 1080p (1920x1080) without WDR:		
	Up to 100/120 fps with power line frequency 50/60 Hz		
Video streaming	Multiple, individually configurable streams in H.264 and Motion		
	JPEG Axis Zipstream technology in H.264		
	Controllable frame rate and bandwidth		
	VBR/ABR/MBR H.264		
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR – 120 dB, white balance, day/night threshold, exposure mode, exposure		
	zones, compression, orientation: auto, 0°, 90°, 180°, 270°		
	including corridor format, mirroring of images, dynamic text overlay, image overlay, privacy masks, defogging, noise reduction,		
	electronic image stabilization, barrel distortion correction,		
	orientation aid, fine tuning of behavior at low light Scene profiles: forensic, vivid, traffic overview, backlit entrance		
Audio	Scene promes. Torensic, wind, tranic overview, oackint entrance		
Audio streaming	Two-way, full duplex		
Audio encoding	AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz,		
, auto encounig	Opus 8/16/48 kHz		
	Configurable bit rate		
Audio input/output	External balanced/unbalanced microphone or line input, line output, built-in microphone, automatic gain control		
mput/output	24 bit AD/DA-conversion		
Network			
Network	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS, TLS, QoS		
protocols	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. ICMP.		
	DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog		
Constants into mus	(RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf).		
System integro Application	Open API for software integration, including VAPIX [®] and		
Programming	AXIS Camera Application Platform; specifications at axis.com		
Interface	One-Click Cloud Connection		
	ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specifications at <i>onvif.org</i>		
Event conditions	Analytics, 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, storage failure, system ready, within operating temperature
	Edge storage: recording compensative I/O: digital input, manual trigger, virtual input MOTT subscribe
	PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready
	Scheduled and recurring: scheduled event Video: average bitrate degradation, day-night mode, live stream open, tampering
Event actions	File upload: FTP, SFTP, HTTP, HTTPS, network share and email,
	send video clip Notification: email, HTTP, HTTPS and TCP
	Overlay text, Send SNMP Trap
	Video and audio recording to edge storage
	Pre- and post-alarm video buffering External output activation, day/night vision mode, play audio clip, status LED, WDR mode, defog mode, PTZ control
Data streaming	Event data
Built-in	i-CS: Remote zoom and focus
installation aids	Other lens: Remote back focus Traffic wizard, pixel counter, levelling assistant, autorotation
Analytics	
Applications	Included
	AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, active tampering alarm, audio detection Supported
	AXIS Digital Autotracking 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 axis.com/acap
Cybersecurity	
Edge security	Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
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	Metal (zinc) Color lid: Silver - RAL 9006 Color chassi: Black - NCS S 9000-N
Sustainability	PVC free
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3
	Typical 4.5 W, max 9.1 W 8–28 V DC, typical 4.3 W, max 9.5 W
Connectors	Shielded RJ45 10BASE-T/100BASE-TX PoE I/O: 6-pin 2.5 mm terminal block for four configurable inputs/outputs (12 V DC output, max load 50 mA) 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)

Operating conditions	-20 °C to 60 °C (-4 °F to 140 °F) Humidity 10–85% RH (non-condensing)	Included accessories	Stand, connector kit, resistorx® T20 tool, installation guide, Windows® decoder 1-user license
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)	Optional lenses 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 Lens i-CS 1/1.8" 3.9-10 mm F1.5 Ricom 2MP Lens DC-iris 8-26 mm F0.9 Tamron Varifocal 5MP Lens 4-13 mm, DC-iris & C-mount	Lens i-CS 9-50 mm F1.5 8 MP
Approvals	EMC EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A,		
	KCC KN32 Class A, KN35 Safety IEC/EN/UL 62368-1, IS 13252 Environment	Optional accessories	AXIS T90B Illuminators, AXIS T92G Housings, AXIS T93F Housings, Axis network cable couplers, AXIS T8129 PoE Extender, AXIS T8415 Wireless Installation Tool, Axis midspans For more accessories, see <i>axis.com</i>
	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78 Network NIST SP500-267	Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at axis.com/vms
Dimensions	82 x 66 x 210 mm (3.23 x 2.60 x 8.25 in)	Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Weight	950 g (2.1 lb)		
		Warranty	5-year warranty, see axis.com/warranty

