

## AXIS Q1656-BE Box Camera

Outdoor barebone model in 4 MP

With 4 MP resolution at up to 60 fps, a 1/1.8" sensor, and Lightfinder 2.0, AXIS Q1656-BE delivers exceptional video quality even in poor light conditions. Based on the latest Axis system-on-chip (SoC), it offers support for advanced features and applications based on deep learning on the edge. And AXIS Object Analytics provides highly nuanced object classification. With built-in cybersecurity features, it prevents unauthorized access and safeguards your system. This outdoor-ready barebone unit comes without lens and mounting, but with a variety of lenses, mounting options, and IR illumination kits, you can create a unique camera to meet your needs.

- > Exceptional images with 1/1.8" sensor
- > Support for analytics with deep learning
- > Built-in cybersecurity features
- > Support for i-CS lens
- > Ready to customize for specific needs





## AXIS Q1656-BE Box Camera

Camera		Event conditions	E F
Image sensor	1/1.8" progressive scan RGB CMOS		Audi Devi
Day and night	Automatically removable infrared-cut filter		oper
Minimum	4 MP 25/30 fps with Forensic WDR and Lightfinder 2.0		netv syste
illumination	Color: 0.05 lux at 50 IRE, F1.5 B/W: 0.01 lux at 50 IRE, F1.5		Digi
	4 MP 50/60 fps with Lightfinder 2.0		has
	Color: 0.1 lux at 50 IRE, F1.5		Edge heal
	B/W: 0.02 lux at 50 IRE, F1.5 Lens not included		1/0:
Shutter speed	1/47500 s to 1 s		MQ1
System on chip			PTZ: reac
Model	ARTPEC-8		Sche
Memory	2048 MB RAM, 8194 MB Flash		Vide
Compute	Deep learning processing unit (DLPU)	Event actions	Over pres
capabilities	Deep learning processing unit (DEI 0)		i/0:
Video			MQT
Video	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles		Noti Pre-
compression	H.265 (MPEG-H Part 2/HEVC) Main Profile		uplo
	Motion JPEG		PTZ:
Resolution	16:9 2688x1512 Quad HD to 160x90 4:3 2016x1512 to 160x120		Reco SNN
Frame rate	No WDR: Up to 60/50 fps (60/50 Hz) in all resolutions		Uplo
	WDR: Up to $30/25$ fps ( $60/50$ Hz) in all resolutions		shar
Video streaming	Multiple, individually configurable streams in H.264, H.265 and	Built-in installation aids	Rem i-CS
j	Motion JPEG		1-03
	Axis Zipstream technology in H.264 and H.265	Analytics	la ela
	Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265	Applications	Inclu AXIS
	Low latency mode		Anal
	Video streaming indicator		AXIS
Multi-view	Up to 8 individually cropped out view areas		Suppinsta
streaming	Saturation contract brightness Forensis WDD, Up to 120 dD	AXIS Object	Obje
mage settings	Saturation, contrast, brightness, Forensic WDR: Up to 120 dB depending on scene, white balance, day/night threshold, tone	Analytics	bike
	mapping, exposure mode, exposure zones, defogging, barrel		Scer
	distortion correction, electronic image stabilization, compression,		cour Up t
	rotation: 0°, 90°, 180°, 270° including Corridor Format, mirroring, dynamic text and image overlay, polygon privacy mask		Oth
	Scene profiles: forensic, vivid, traffic overview		bour Poly
Pan/Tilt/Zoom	Digital PTZ, preset positions		Pers
	Uploadable PTZ driver (Pelco D pre-installed)		ONV
Audio		AXIS Image	Dete
Audio streaming	Two-way, full duplex Noise reduction	Health Analytics	Tam
Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726		Imag Othe
nauto encounty	ADPCM 8 kHz, Opus 8/16/32/48 kHz	AXIS Scene	Obje
	Configurable bit rate	Metadata	truc
Audio	External microphone input or line input, line output, ring power,		Obje
input/output	digital audio input, automatic gain control	Ammenala	conf
Network		Approvals	EN .
Network	IPv4, IPv6 USGv6, HTTP, HTTPS <sup>a</sup> , HTTP/2, TLS <sup>b</sup> , QoS Layer 3	EMC	EN 5 EN 6
protocols	DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP <sup>®</sup> , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP/RTSPS,		Aust
	TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP,		RCN
	MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS)		Can Japa
System integra	tion		Kore
Application	Open API for software integration, including VAPIX® and		USA
Programming Interface	AXIS Camera Application Platform; specifications at axis.com One-click cloud connection		Rail
merrace	ONVIF <sup>®</sup> Profile G, ONVIF <sup>®</sup> Profile M, ONVIF <sup>®</sup> Profile S, and	Safety	IEC/
	ONVIF® Profile T, specification at onvif.org	Environment	IEC
Onscreen	Electronic image stabilization		IEC IEC/
controls	Day/night shift		ISO
	Defogging Wide dynamic range	Network	NIST
	Video streaming indicator		

Event conditions	Audio: audio detection, audio clip playing Device status: above/below/within operating temperature, casing open, IP address blocked, IP address removed, live stream active, network lost, new IP address, ring power overcurrent protection, system ready Digital audio: digital signal contains Axis metadata, digital signal has invalid sample rate, digital signal missing, digital signal okay Edge storage: recording ongoing, storage disruption, storage health issues detected I/O: digital input, manual trigger, virtual input MOTT: stateless PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, tampering Overlay text, external output activation, play audio clip, zoom	
D. 11.	preset I/O: toggle I/O once, toggle I/O while the rule is active MOTT: publish Notification: HTTP, HTTPS, TCP, and email Pre- and post-alarm video or image buffering for recording or upload PTZ: PTZ preset, start/stop guard tour Record video: SD card and network share SNMP traps: send, send while the rule is active Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share, and email	
Built-in installation aids	Remote back focus, leveling assistant, pixel counter i-CS lens: Remote zoom and focus	
Analytics		
Applications	Included AXIS Object Analytics, AXIS Scene Metadata, AXIS Image Health Analytics, AXIS Live Privacy Shield <sup>c</sup> AXIS Video Motion Detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see <i>axis.com/acap</i>	
AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks, bikes, other) Scenarios: line crossing, object in area, time in area, crossline counting, occupancy in area Up to 10 scenarios Other features: triggered objects visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event	
AXIS Image Health Analytics	Detection settings: Tampering: blocked image, redirected image Image degradation: blurred image, underexposed image Other features: sensitivity, validation period	
AXIS Scene Metadata	Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Object attributes: vehicle color, upper/lower clothing color, confidence, position	
Approvals		
EMC	EN 55032 Class A, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, EN 50121-4 Australia/New Zealand: CISPR 24, CISPR 35, RCM AS/NZS CISPR 32 Class A Canada: ICES-3(A)/NMB-3(A) Japan: VCCI Class A Korea: KS C 9832 Class A, KS C 9815, KS C 9835, KS C 9547 USA: FCC Part 15 Subpart B Class A Railway: IEC 62236-4	
Safety	IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IEC 62471, IS 13252	
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), ISO 21207 (Method B)	
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 element (CC EAL 6+), system-on-chip security (TEE), Axis device ID, secure keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)	
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) <sup>d</sup> , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS <sup>e</sup> , TLS v1.2/v1.3 <sup>f</sup> , 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 with integrated dehumidifying membrane IK10 impact-resistant plastic front window weathershield with black anti-glare coating Color: white NCS S 1002-B For repainting instructions, go to the product's support page. For information about the impact on warranty, go to <i>axis.com/warranty-implication-when-repainting</i> .	
Sustainability	PVC free, BFR/CFR free, 0% recycled plastics, 5% bio-based plastics	
Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 Typical 11.8 W, max 25.5 W 10–28 VDC, typical 11.2 W, max 25.2 W Power redundancy	
Connectors	RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE Terminal block for two supervised and two unsupervised configurable inputs / digital outputs (12 VDC output, max load 50 mA) RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block DC input, 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) Arctic Temperature Control: Start-up at -40 °C (-40 °F) 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	404 x 159 x 182 mm (16 x 6.3 x 7.2 in)
Weight	3.3 kg (7.3 lb)
Included accessories	Sunshield, connector kit, resistorx® T20 tool, installation guide, Windows <sup>®</sup> decoder 1-user license
Optional accessories	AXIS T8415 Wireless Installation Tool AXIS Surveillance Cards For more accessories, see <i>axis.com</i>
Optional lenses	Lens CS 4-10 mm F0.9 P-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
Video management software	AXIS Camera Station and 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, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see axis.com/warranty
OpenSSL Toolkit. (eay@cryptsoft.) This product incl	udes software developed by the OpenSSL Project for use in the (openssl.org), and cryptographic software written by Eric Young com). udes software developed by the OpenSSL Project for use in the (openssl.org), and cryptographic software written by Eric Young com).

c. Available for download
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