

## **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			Wide dynamic range	
Image sensor	1/1.8" progressive scan RGB CMOS		Video streaming indicator	
Day and night	Automatically removable infrared-cut filter		Heater	
Minimum illumination	4 MP 25/30 fps with Forensic WDR and Lightfinder 2.0 Color: 0.05 lux at 50 IRE, F1.5 B/W: 0.01 lux at 50 IRE, F1.5 4 MP 50/60 fps with Lightfinder 2.0 Color: 0.1 lux at 50 IRE, F1.5 B/W: 0.02 lux at 50 IRE, F1.5 Lens not included	Event conditions	Analytics, external input, supervised external input, edge storag events, virtual inputs through API Audio: audio detection Device status: above operating temperature, above or below operating temperature, lP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature, casing oper Video: tampering, average bitrate degradation, day-night mode	
Shutter speed	1/47500 s to 1 s		Edge storage: recording ongoing, storage disruption	
System on chip	o (SoC)		I/O: digital input, manual trigger, virtual input PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position	
Model	ARTPEC-8		reached, PTZ ready	
Memory	2048 MB RAM, 8194 MB Flash		Scheduled and recurring: scheduled event Video: live stream open	
Compute capabilities	Deep learning processing unit (DLPU)	Event actions	Overlay text, external output activation, play audio clip, zoom preset	
Video			I/O: toggle I/O once, toggle I/O while the rule is active	
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG		MQTT: publish Notification: HTTP, HTTPS, TCP, and email Pre- and post-alarm video or image buffering for recording or upload	
Resolution	16:9 2688x1512 Quad HD to 160x90 4:3 2016x1512 to 160x120		PTZ: PTZ preset, start/stop guard tour Record video: SD card and network share	
Frame rate	No WDR: Up to 60/50 fps (60/50 Hz) in all resolutions WDR: Up to 30/25 fps (60/50 Hz) in all resolutions		SNMP traps: send, send while the rule is active Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share, and email	
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Axis Zipstream technology in H.264 and H.265	Built-in installation aids	Remote back focus, leveling assistant, pixel counter i-CS lens: Remote zoom and focus	
	Controllable frame rate and bandwidth	Analytics		
	VBR/ABR/MBR H.264/H.265 Low latency mode Video streaming indicator	AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks, bikes)	
Multi-view streaming	Up to 8 individually cropped out view areas		Trigger conditions: line crossing, object in area Up to 10 scenarios Metadata visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event	
Image settings	Saturation, contrast, brightness, Forensic WDR: Up to 120 dB depending on scene, white balance, day/night threshold, tone mapping, exposure mode, exposure zones, defogging, barrel			
	tortion correction, electronic image stabilization, compression, ation: 0°, 90°, 180°, 270° including Corridor Format, rroring, dynamic text and image overlay, polygon privacy mask		Included AXIS Object Analytics AXIS Video Motion Detection	
Pan/Tilt/Zoom	Digital PTZ, 2.5x optical zoom, preset positions Uploadable PTZ driver (Pelco D pre–installed)		Supported Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
Audio		Cybersecurity	installation of time party applications, see axis.com, acap	
Audio streaming	Two-way, full duplex Noise reduction	Edge security	Software: Signed firmware, brute force delay protection, digest	
Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate	,	authentication, password protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Secure boot, Axis Edge Vault with Axis device ID, signed video, secure keystore (CC EAL4+, FIPS 140-2 level 2 certified hardware protection of cryptographic operations and keys)	
Audio input/output	External microphone input or line input, line output, ring power, digital audio input, automatic gain control			
Network	ID address Classics LITTECS	Network security	IEEE 802.1X (EAP-TLS) <sup>a</sup> , IEEE 802.1AR, HTTPS/HSTS <sup>a</sup> , TLS v1.2/v1.3 <sup>a</sup> , Network Time Security (NTS), X.509 Certificate PKI,	
Security	IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1x (EAP-TLS) <sup>a</sup> network access control, user access log, centralized certificate management	Documentation	IP address filtering  AXIS OS Hardening Guide	
Network protocols	IPv4, IPv6 USGv6, HTTP, HTTPS <sup>a</sup> , HTTP/2, TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP <sup>®</sup> , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, MQTT v3.1.1, Syslog	Documentation	Axis Vulnerability Management Policy Axis Security Development Model To download documents, go to axis.com/support/cybersecu- rity/resources To read more about Axis cybersecurity support, go to	
System integro	ntion	Com ou1	axis.com/cybersecurity	
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at onvif.org	aluminum enclosure with integrated dehumidifying mem 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	weathershield with black anti-glare coating	
Onscreen controls	Electronic image stabilization Day/night shift Defogging		For repainting instructions, go to the product's support page. For information about the impact on warranty, go to	

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Sustainability		
Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 Typical 11.8 W, max 12.95 W 10–28 V DC, 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 V DC 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 axis.com	
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)	
Approvals	EMC CISPR 24, CISPR 35, EN 55032 Class A, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), EN 50121-4, IEC 62236-4, KS C 9832 Class A, KS C 9815, KS C 9835, KS C 9547, RCM AS/NZS CISPR 32 Class A, VCCI Class A 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 60068-2-7, 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
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® 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
Warranty	5-year warranty, see axis.com/warranty

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

