

## AXIS Q1656-B Box Camera

Indoor 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-B 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 lightweight barebone unit comes without lens for maximum flexibility. It's designed for retrofitting AXIS T92E20 Outdoor Housing, making it easy to add deep-learning capabilities to existing installations.

- > 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-B Box Camera

Camera Image sensor	1/1.8" progressive scan RGB CMOS		Defogging Wide dynamic range	
Day and night			Video streaming indicator	
Day and hight Minimum illumination	Automatically removable infrared-cut filter 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 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 detected, storage failure, system ready, within operating temperature 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 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		İ/O: toggle I/O once, toggle I/O while the rule is active MQTT: publish Notification: HTTP, HTTPS, TCP, and email Pre- and post-alarm video or image buffering for recording or	
Resolution	16:9 2688x1512 Quad HD to 160x90 4:3 2016x1512 to 160x120		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, networl share, and email	
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			
Video streaming	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	Built-in installation aids	Remote back focus, leveling assistant, pixel counter i-CS lens: Remote zoom and focus	
		Analytics		
		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	
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 distortion correction, electronic image stabilization, compression,	Applications	Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event Included	
D /111/7	rotation: 0°, 90°, 180°, 270° including Corridor Format, mirroring, dynamic text and image overlay, polygon privacy mask		AXIS Object Analytics AXIS Video Motion Detection Supported	
Pan/Tilt/Zoom	Digital PTZ, preset positions Uploadable PTZ driver (Pelco D pre-installed)		Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
Audio Audio streaming	Two-way, full duplex	Cybersecurity		
Audio encoding	Noise reduction 24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726	Edge security	Software: Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit	
5	ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate		SD card encryption Hardware: Secure boot, Axis Edge Vault with Axis device ID, signed video, secure keystore (CC EAL4+, FIPS 140-2 level 2	
Audio input/output	External microphone input or line input, line output, built-in microphone (can be disabled), ring power, digital audio input, automatic gain control		certified hardware protection of cryptographic operations and keys)	
Network		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	Pv4, IPv6 USGv6, HTTP, HTTPS <sup>a</sup> , HTTP/2, TLS <sup>a</sup> , QoS Layer 3       Axis Security D         DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP <sup>®</sup> , SNMP       AXIS OS Softw.         v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP/RTSPS,       To download d         CP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP,       rity/resources         MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS)       To read more a		To read more about Axis cybersecurity support, go to	
System integra	tion	General	axis.com/cybersecurity	
Application Programming Interface	Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <i>axis.com</i>	General Casing	Aluminum casing Color: black NCS S 9000-N	
	One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and	Mounting	1/4"-20 UNC tripod screw thread	
Onscreen	ONVIF® Profile T, specification at <i>onvif.org</i> Electronic image stabilization	Sustainability	PVC free, BFR/CFR free, 2% recycled plastics, 4% bio-based plastics	
controls	Day/night shift	Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3	

	Typical 5.1 W, max 8.2 W 10–28 V DC, typical 4.6 W, max 7.7 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) AXIS T92G20 connector, Security lock slot
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	-20 °C to 60 °C (-4 °F to 140 °F) Humidity 10–85% RH (non-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(B)/NMB-3(B), 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

	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 Network NIST SP500-267
Dimensions	155 x 80 x 58 mm (6.1 x 3.2 x 2.3 in)
Weight	400 g (0.9 lb)
Included accessories	Installation guide, Windows® decoder 1-user license, drill hole template, connector kit, RESISTORX® L-key
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 <i>axis.com/vms</i>
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese
Warranty	5-year warranty, see axis.com/warranty

a. 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).

