

AXIS Q.1656-BLE Box Camera Outdoor barebone model in 4 MP with IR

With 4 MP resolution at up to 60 fps, a 1/1.8" sensor, and Lightfinder 2.0, AXIS Q1656-BLE 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 for maximum flexibility. Furthermore, it includes power-efficient IR and white LED illumination.

- > Exceptional images with 1/1.8" sensor
- > Support for analytics with deep learning
- > Built-in cybersecurity features
- > Ready to customize for specific needs
- > Built-in wiper for snow and rain





AXIS Q1656-BLE Box Camera

Camera			Timed wiper
Image sensor	1/1.8" progressive scan RGB CMOS		Wiper Heater
Day and night	Automatically removable infrared-cut filter	Event conditions	Analytics, external input, supervised external input, edge storage
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 0 lux with IR illumination on	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, below operating temperature, IP 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 Edge storage: recording ongoing, storage disruption I/O: digital input, manual trigger, virtual input PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position
Shutter speed	47500 s to 1 s		
System on chip			reached, PTZ ready Scheduled and recurring: scheduled event
Model	ARTPEC-8		Video: live stream open
Memory	2048 MB RAM, 8194 MB Flash	Event actions	Overlay text, external output activation, play audio clip, zoom preset I/O: toggle I/O once, toggle I/O while the rule is active
Compute capabilities	Deep learning processing unit (DLPU)		
Video	LLOCA (MDEC) A Dest 10(A)(C) Dessling Main and Llink Desfler		Illumination: use lights, use lights while the rule is active MQTT: publish
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		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, networl share, and email
Resolution	16:9 2688x1512 Quad HD to 160x90 4:3 2016x1512 to 160x120		
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	Motion JPEG Built-in Axis Zipstream technology in H.264 and H.265 installation Controllable frame rate and bandwidth Ancelytics VBR/ARE/MBR H.264/H.265 Ancelytics		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) Features: line crossing, object in area, crossline countingBETA, occupancy in areaBETA Up to 10 scenarios Metadata visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event Included AXIS Object Analytics AXIS Video Motion Detection Supported Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
Multi-view streaming	Up to 8 individually cropped out view areas		
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, rotation: 0°, 90°, 180°, 270° including Corridor Format,	Applications	
Pan/Tilt/Zoom	mirroring, dynamic text and image overlay, polygon privacy mask Digital PTZ, preset positions	Applications	
Audio	Uploadable PTZ driver (Pelco D pre-installed)		
Audio streaming	Two-way, full duplex Noise reduction	Cybersecurity	
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	Edge security	Software: Signed firmware, brute force delay protection, digest authentication, 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
Audio input/output	External microphone input or line input, line output, ring power, digital audio input, automatic gain control		
Network			keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)
Network protocols	IPv4, IPv6 USGv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP [®] , 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	Network security	IEEE 802.1X (EAP-TLS), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3 Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
	v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS)	Documentation	AXIS OS Hardening Guide
System integra Application Programming Interface	ttion Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <i>axis.com</i> One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <i>onvif.org</i>		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
Onscreen	Electronic image stabilization	General	· ·
controls	Day/night shift Defogging Wide dynamic range Video streaming indicator	Casing	IP66-, IP67-, and NEMA 4X-rated, IK10 impact-resistant aluminum enclosure with integrated dehumidifying membrane IK08 impact-resistant glass front window with wiper 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 axis.com/warranty-implication-when-repainting.		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	
Sustainability			IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IEC 62471, IS 13252 Environment	
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		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)	
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)		Network NIST SP500-267	
		Dimensions	404 x 159 x 182 mm (16 x 6.3 x 7.2 in)	
		Weight	4.1 kg (9.0 lb)	
		Included accessories	Sunshield, connector kit, resistorx® T20 tool, installation guide, Windows® decoder 1-user license	
IR illumination	OptimizedIR with power-efficient, long-life 850 nm IR LEDs Range of reach 50 m (164 ft) or more depending on the scene	Optional accessories	AXIS T8415 Wireless Installation Tool AXIS Surveillance Cards	
Illumination LED	Power-efficient, long-life white LED Range of reach 25 m (82 ft) or more depending on the scene	Optional lenses	For more accessories, see axis.com Lens CS 4-10 mm F0.9 P-Iris	
Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS)	·	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	
	For SD card and NAS recommendations see axis.com	Video	AXIS Camera Station and video management software from Axis	
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)	management software	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,	
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)	Warranty	Vietnamese 5-year warranty, see <i>axis.com/warranty</i>	
Approvals	EMC CISPR 24. CISPR 35. EN 55032 Class A. EN 55035.			

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