

## **AXIS Q3628-VE Dome Camera**

### Advanced 8 MP dome with remote adjustment

With remote pan-tilt-roll-zoom functionality, this top-of-the-line camera lets you easily adjust and readjust the camera view over the network. Thanks to Lightfinder 2.0 and Forensic WDR, it delivers outstanding image quality and great detail even in challenging light or near darkness. Built on the latest Axis system-on-chip, it supports advanced analytics based on deep learning on the edge. For instance, AXIS Object Analytics lets you detect and classify moving objects. This robust, IK10-rated camera comes enclosed in a metal casing. Furthermore, Axis Edge Vault safeguards your device and offers secure key storage with FIPS 140-2 level 2 certification.

- > Outstanding image quality in 8 MP
- > Remote adjustment of the camera angle
- > Analytics with deep learning
- > Electronic image stabilization
- > Axis Edge Vault safeguards device







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Camera		Network		
Image sensor	1/1.2" progressive scan RGB CMOS	Network	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPSb, HTTP/2, TLSb,	
	Pixel size 2.9 μm	protocols	QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour)	
Lens	Varifocal, 6.2–12.9 mm, F1.6–2.9 Horizontal field of view: 103°–48°		UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP,	
	Vertical field of view: 103 –46		DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf),	
	Minimum focus distance: 1.5 m (4.8 ft) IR corrected, remote zoom and focus, P-Iris control		IEEE 802.1X (EAP-TLS), IEEE 802.1AR	
Day and night	Automatic IR-cut filter	System integra	rtion	
Minimum	Color: 0.07 lux at 50 IRE, F1.6	Application Programming	Open API for software integration, including VAPIX®, metadata	
illumination	B/W: 0.01 lux at 50 IRE, F1.6	Interface	and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community. ACAP includes Native SDK and	
Shutter speed	1/66500 s to 2 s with 60 Hz		Computer Vision SDK. One-click cloud connection	
Camera angle adjustment	Pan ±190°, tilt -8 to +75°, roll ±97°		ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and	
System on chip (SoC)			ONVIF® Profile T, specifications at <i>onvif.org</i> Support for Session Initiation Protocol (SIP) for integration with	
Model	ARTPEC-8		Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX.	
Memory	2048 MB RAM, 8192 MB Flash	Video	Compatible with AXIS Companion, AXIS Camera Station, video	
Compute capabilities	Deep learning processing unit (DLPU)	management systems	management software from Axis' Application Development Partners available at axis.com/vms	
Video		Onscreen	Autofocus	
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	controls		
Resolution	16:9: 3840x2160 to 160x90 16:10: 1280x800 to 160x100 4:3: 2880x2160 to 160x120		Heater Media clip Privacy mask Video streaming indicator	
Frame rate	With Forensic WDR: Up to 25/30 fps (50/60 Hz) in all resolutions No WDR: Up to 50/60 fps (50/60 Hz) in all resolutions	Event conditions	Video streaming indicator Wide dynamic range	
Video streaming	Up to 20 unique and configurable video streams <sup>a</sup> 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		Audio: audio detection  Call: state, state change Device status: above/below/within operating temperature, IP address removed, new IP address, shock detected, network lost, system ready, ring power overcurrent protection, live stream active, casing open	
Signal-to-noise ratio	>55 dB		Digital audio input status Edge storage: recording ongoing, storage disruption, storage	
WDR	Forensic WDR: Up to 120 dB depending on scene		health issues detected I/O: digital input, manual trigger, virtual input	
Multi-view	Up to 8 individually cropped out view areas		MQTT: subscribe Scheduled and recurring: schedule	
streaming Noise reduction	Spatial filter (2D maior raduction)		Video: average bitrate degradation, tampering	
	Spatial filter (2D noise reduction) Temporal filter (3D noise reduction)	Event actions	Audio clips: play, stop Calls: answer call, end SIP call, make SIP call Day-night mode Defog mode I/O: toggle I/O once, toggle I/O while the rule is active MQTT: publish Notification: HTTP, HTTPS, TCP and email Overlay text	
lmage settings	Saturation, contrast, brightness, sharpness, white balance, day/night threshold, local contrast, tone mapping, exposure mode, exposure zones, defogging, barrel distortion correction, electronic image stabilization, compression, rotation: 0°, 90°, 180°, 270° including corridor format, mirroring, dynamic text and image overlay, polygon privacy mask,target aperture			
	Axis Zipstream, Forensic WDR, Lightfinder 2.0		Pre- and post-alarm video or image buffering for recording or upload	
Pan/Tilt/Zoom	Digital PTZ with preset positions PTRZ preset positions		Recordings: SD card and network share	
Audio	hh		SNMP traps: send, send while the rule is active Status LED: flash	
Audio features	AGC automatic gain control Network speaker pairing		Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email WDR mode	
Audio streaming	Configurable duplex: Two-way (half duplex, full duplex)	Built-in installation aids	Pan-tilt-roll: designed to withstand at least 500 full movement cycles, autoroll, pixel counter, remote zoom and focus, level grid	
Audio input	10-band graphic equalizer	Analytics	eyeres autoron, piner evance, remove about and rocks, rever give	
	Input for external unbalanced microphone, optional 5 V microphone power Digital input, optional 12 V ring power Unbalanced line input	Applications	Included AXIS Object Analytics, AXIS Scene Metadata, AXIS Video Motion Detection, active tampering alarm, audio detection	
Audio output	Output via network speaker pairing		AXIS Live Privacy Shield  Supported  AXIS Perimeter Defender, AXIS License Plate Verifier  Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
Audio encoding	24bit LPCM 48 kHz, AAC-LC 8/16/32/44.1/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate			
		AXIS Object Analytics	<b>Object classes:</b> humans, vehicles (types: cars, buses, trucks, bikes, other)	

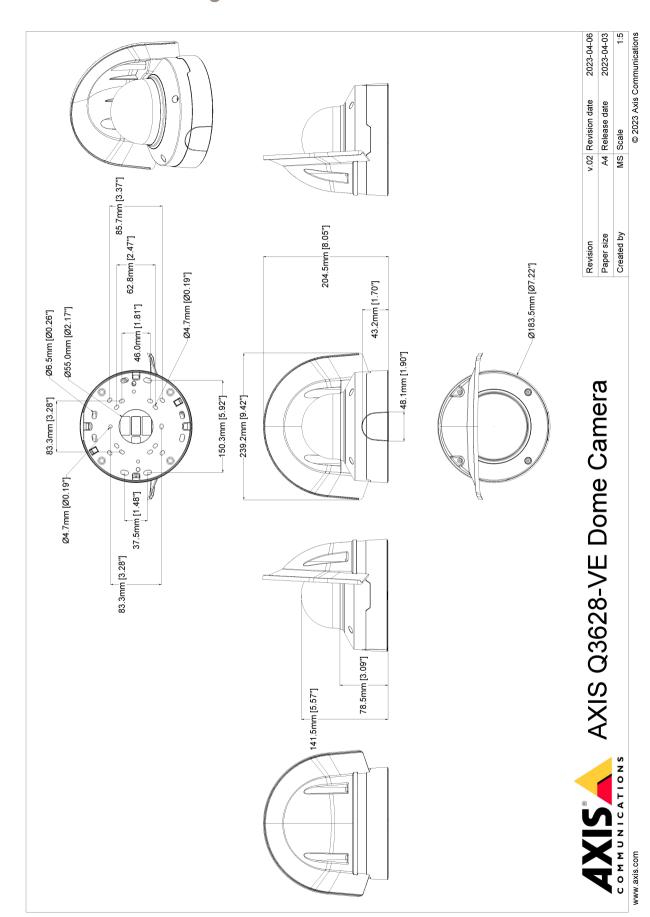
Object attributes: vehicle color, upper/lower clothing color, confidence, position  Approvals  Product markings CSA, UL/cUL, UKCA, CE, KC, VCCI, RCM  Supply chain  TAA compliant  EMC  CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, EN 50121-4, EN 61000-6-1, EN 61000-6-2	AXIS Scene Metadata	Scenarios: line crossing, object in area, crossline counting, occupancy in area, time in area Up to 10 scenarios Other features: triggered objects visualized with trajectories, color-coded bounding boxes and tables Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event  Object classes: humans, faces, vehicles (types: cars, buses, trucke bikes) license plates				
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	Mounting					

	3/4" (M25) conduit side entries
Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 Typical 8 W, max 25 W 10–28 V DC, typical 7 W, max 25 W
Connectors	Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE I/O: 4-pin 2.5 mm terminal block for two configurable supervised inputs / digital outputs (12 V DC output, max load 50 mA) Audio: 3.5 mm mic/line in Power: DC input, terminal block
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	$-50~^{\circ}\text{C}$ to 55 $^{\circ}\text{C}$ (-58 $^{\circ}\text{F}$ to 131 $^{\circ}\text{F})$ Maximum temperature according to NEMA TS 2 (2.2.7): 74 $^{\circ}\text{C}$ (165 $^{\circ}\text{F})$ Start-up temperature: -40 $^{\circ}\text{C}$ (-40 $^{\circ}\text{F})$ Humidity 10–100% RH (condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Dimensions	Height: 141 mm (5.6 in) ø 184 mm (7.2 in) Effective Projected Area (EPA): 0.0399 m² (0,4294 ft²)
Weight	2100 g (4.6 lb)
Box content	Camera, weathershield, installation guide, conduit adapter, RESISTORX® TR20 screw bit, terminal block connectors, connector guard, cable gasket, owner authentication key
Optional accessories	AXIS TQ3103-E Pendant Kit, AXIS TQ3202-E Recessed Mount AXIS T8415 Wireless Installation Tool AXIS Surveillance Cards
System tools	AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator Available at axis.com
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
Part numbers	Available at axis.com/products/axis-q3628-ve#part-numbers
Sustainability	
Substance control	PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709 RoHS in accordance with EU RoHS Directive 2011/65/EU/ and EN 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see axis.com/partner.
Materials	Renewable carbon-based plastic content: 62% (bio-based) Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to axis.com/about-axis/sustainability
Environmental responsibility	axis.com/environmental-responsibility Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org

a. We recommend a maximum of 3 unique video streams per camera or channel, for optimized user experience, network bandwidth, and storage utilization. A unique video stream can be served to many video clients in the network using multicast or unicast transport method via built-in stream reuse functionality.

b. 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).

# Dimension drawing



www.cxis.com T10188493/EN/M13.2/2406

## Highlighted capabilities

#### Pan-tilt-roll-zoom (PTRZ)

PTRZ functionality includes the ability of a camera to rotate around its vertical, lateral, and longitudinal axes. The camera's focal length is adjustable to achieve a narrower or wider field of view. Thanks to the remote functionality, you can quickly adjust and readjust the camera view remotely over the network, saving time and effort. PTRZ functionality also gives you the flexibility to make future adjustments easily, ensuring less disruption, less downtime, and that no dispatched technician is needed.

#### **AXIS Object Analytics**

AXIS Object Analytics is a preinstalled, multifeatured video analytics that detects and classifies humans, vehicles, and types of vehicles. Thanks to Al-based algorithms and behavioral conditions, it analyzes the scene and their spatial behavior within – all tailored to your specific needs. Scalable and edge-based, it requires minimum effort to set up and supports various scenarios running simultaneously.

#### Axis Edge Vault

Axis Edge Vault is the hardware-based cybersecurity platform that safeguards the Axis device. It forms the foundation that all secure operations depend on and offer features to protect the device's identity, safeguard its integrity and protect sensitive information from unauthorized access. For instance, secure boot ensures that a device can boot only with signed OS, which prevents physical supply chain tampering. With signed OS, the device is also able to validate new device software before accepting to install it. And the secure keystore is the critical building-block for protecting cryptographic information used for secure communication (IEEE 802.1X, HTTPS, Axis device ID, access control keys etc.) against malicious extraction in the event of a security breach. The secure keystore and secure connections are provided through a Common Criteria or FIPS 140 certified hardware-based cryptographic computing module.

Furthermore, signed video ensures that video evidence can be verified as untampered. Each camera uses its unique video signing key, which is securely stored in the secure keystore, to add a signature into the video stream allowing video to be traced back to the Axis camera from where it originated.

To read more about Axis Edge Vault, go to axis.com/solutions/edge-vault.

#### Electronic image stabilization

Electronic image stabilization (EIS) provides smooth video in situations where a camera is subject to vibrations. Built-in gyroscopic sensors continuously detect the camera's movements and vibrations, and they automatically adjust the frame to ensure you always capture the details you need. Electronic image stabilization relies on different algorithms for modeling camera motion, which are used to correct the images.

#### Forensic WDR

Axis cameras with wide dynamic range (WDR) technology make the difference between seeing important forensic details clearly and seeing nothing but a blur in challenging light conditions. The difference between the darkest and the brightest spots can spell trouble for image usability and clarity. Forensic WDR effectively reduces visible noise and artifacts to deliver video tuned for maximal forensic usability.

#### Lightfinder

The Axis Lightfinder technology delivers high-resolution, full-color video with a minimum of motion blur even in near darkness. Because it strips away noise, Lightfinder makes dark areas in a scene visible and captures details in very low light. Cameras with Lightfinder discern color in low light better than the human eye. In surveillance, color may be the critical factor to identify a person, an object, or a vehicle.

#### **Zipstream**

The Axis Zipstream technology preserves all the important forensic in the video stream while lowering bandwidth and storage requirements by an average of 50%. Zipstream also includes three intelligent algorithms, which ensure that relevant forensic information is identified, recorded, and sent in full resolution and frame rate.

For more information, see axis.com/glossary

