

# **AXIS M3088-V Dome Camera**

### Fixed 8 MP mini dome with deep learning

This cost-efficient mini dome features Wide Dynamic Range (WDR) to ensure clarity even when there's both dark and light areas in the scene. A deep learning processing unit enables intelligent analytics based on deep learning on the edge. Plus, AXIS Object Analytics including time in area feature lets you track whenever an object stays in a defined area longer than a user-defined time, for example, to detect loitering. This compact, easy-to-install, vandal-resistant camera comes factory focused so there's no manual focusing required. Furthermore, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis devices on your network.

- > Great image quality in 8 MP
- > Compact, discreet design
- > WDR for challenging light
- > Support for analytics with deep learning
- > Built-in cybersecurity features









# AXIS M3088-V Dome Camera

/2.8" progressive scan RGB CMOS9 mm, F2.0 lorizontal field of view: 109° //ertical field of view: 56° //ertical field of view: 50° //ertical field of view: 5	management systems Onscreen controls Edge-to-edge Event conditions  Event actions  Built-in installation aids	management software from Axis' Application Development Partners available at axis.com/vms  Privacy masks Media clip  Speaker pairing  Application Audio: audio detection Device status: above/below/within operating temperature, IP address blocked, IP address removed, new IP address, network lost, system ready, live stream active Edge storage: recording ongoing, storage disruption, storage health issues detected I/O: manual trigger, virtual input, digital input via accessories using portcast technology MQTT: subscribe Scheduled and recurring: schedule Video: average bitrate degradation, tampering  Day-night mode LEDs: flash status LED, flash status LED while the rule is active MQTT: publish Notification: HTTP, HTTPS, TCP and email Overlay text Recordings SNMP traps Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email WDR mode External output activation via accessories using portcast technology Pixel counter, level grid
dorizontal field of view: 109° fertical field of view: 56° ixed iris, IR corrected Automatic IR-cut filter Color: 0.25 lux at 50 IRE F2.0 I/71500 s to 1/5 s  Van ±175°, tilt ±80°, rotation ±175° Can be directed in any direction and see the wall/ceiling ISOC)  V25  V25  V48 MB RAM, 512 MB Flash Deep learning processing unit (DLPU)  I.264 (MPEG-4 Part 10/AVC) Main and High Profiles I.265 (MPEG-H Part 2/HEVC) Main Profile I.265 (MPEG-H Vart 10/AVC) Main and High Profiles I.264 (MPEG-4 Vart 10/AVC) Main and High Profiles I.265 (MPEG-4 Vart 10/AVC) Main and High Profiles I.264 (MPEG-4 Vart 10/AVC) Main and High Profiles I.265 (MPEG-4 Vart 10/AVC) Main and High Profiles I.265 (MPEG-4 Vart 10/AVC) Main and High Profiles I.264 (MPEG-4 Vart 10/AVC) Main and High Profiles I.265 (MPEG-4 Vart 10/AVC) Main and High Profiles I.264 (MPEG-4 Vart 10/AVC) Main and High Profiles I.265 (MPEG-4 Vart 10/AVC) Main and High Profiles I.265 (MPEG-4 Vart 10/AVC) Main and High Profiles I.264 (MPEG-4 Vart 10/AVC) Main and High Profiles I.265 (MPEG-4 Vart 10/AVC) Main and High Profiles I.265 (MPEG-4 Vart 10/AVC) Main and High Profiles I.264 (MPEG-4 Vart 10/AVC) Main and High Profiles I.265 (MPEG-4 Vart 10/AVC) Main and High Profiles I.264 (MPEG-4 Vart 10/AVC) Main and High Profiles I.264 (MPEG-4 Vart 10/AVC) Main and High Profiles I.264 (MPEG-4 Vart 10/AVC) Main and High Profiles I.265 (MPEG-4 Vart 10/AVC) Main and High Profiles I.265 (MPEG-4 Vart 10/AVC) Main and High Profiles I.264 (MPEG-4 Vart 10/A	Event actions  Event actions  Event actions	Media clip  Speaker pairing  Application Audio: audio detection Device status: above/below/within operating temperature, IP address blocked, IP address removed, new IP address, network lost, system ready, live stream active Edge storage: recording ongoing, storage disruption, storage health issues detected I/O: manual trigger, virtual input, digital input via accessories using portcast technology MQTT: subscribe Scheduled and recurring: schedule Video: average bitrate degradation, tampering  Day-night mode LEDs: flash status LED, flash status LED while the rule is active MQTT: publish Notification: HTTP, HTTPS, TCP and email Overlay text Recordings SNMP traps Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email WDR mode External output activation via accessories using portcast technology
Automatic IR-cut filter  Color: 0.25 lux at 50 IRE F2.0  J/N: 0.05 lux at 50 IRE F2.0  J/1500 s to 1/5 s  Can ±175°, tilt ±80°, rotation ±175°  Can be directed in any direction and see the wall/ceiling  Soc)  CV25  CV48 MB RAM, 512 MB Flash  Deep learning processing unit (DLPU)  A.264 (MPEG-4 Part 10/AVC) Main and High Profiles  A.265 (MPEG-H Part 2/HEVC) Main Profile  Motion JPEG  6:9: 3840x2160 (8 MP) to 640x360  L:3: 2592x1944 to 320x240  2/15 fps with power line frequency 50/60 Hz in H.264 and  Al.265 <sup>a</sup> Multiple, individually configurable streams in H.264, H.265 and  Motion JPEG  Controllable frame rate and bandwidth	Event actions  Event actions  Built-in installation aids	Application Audio: audio detection Device status: above/below/within operating temperature, IP address blocked, IP address removed, new IP address, network lost, system ready, live stream active Edge storage: recording ongoing, storage disruption, storage health issues detected I/O: manual trigger, virtual input, digital input via accessories using portcast technology MQTT: subscribe Scheduled and recurring: schedule Video: average bitrate degradation, tampering  Day-night mode LEDs: flash status LED, flash status LED while the rule is active MQTT: publish Notification: HTTP, HTTPS, TCP and email Overlay text Recordings SNMP traps Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email WDR mode External output activation via accessories using portcast technology
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2/25 2048 MB RAM, 512 MB Flash Deep learning processing unit (DLPU)  1.264 (MPEG-4 Part 10/AVC) Main and High Profiles 1.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG  6:9: 3840x2160 (8 MP) to 640x360 1:3: 2592x1944 to 320x240  2/15 fps with power line frequency 50/60 Hz in H.264 and 1.265a  Multiple, individually configurable streams in H.264, H.265 and Motion JPEG  Individually configurable streams in H.264, H.265 and Motion JPEG  Individually configurable streams in H.264, H.265 and Motion JPEG  Individually configurable streams in H.264, H.265 and Motion JPEG  Individually configurable streams in H.264, H.265 and Motion JPEG  Individually configurable streams in H.264, H.265 and Motion JPEG  Individually configurable streams in H.264, H.265 and Motion JPEG  Individually configurable streams in H.264, H.265 and Motion JPEG  Individually configurable streams in H.264, H.265 and Motion JPEG	Built-in installation aids	using portcast technology MQTT: subscribe Scheduled and recurring: schedule Video: average bitrate degradation, tampering  Day-night mode LEDs: flash status LED, flash status LED while the rule is active MQTT: publish Notification: HTTP, HTTPS, TCP and email Overlay text Recordings SNMP traps Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email WDR mode External output activation via accessories using portcast technology
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Controllable frame rate and bandwidth	A sa aslauki asa	
/BR/ABR/MBR H.264/H.265	Analytics	
	Applications	Included
VDR: Up to 120 dB depending on scene		AXIS Object Analytics, Scene metadata, AXIS Live Privacy Shields AXIS Video Motion Detection, active tampering alarm, audio detection Supported AXIS People Counter Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
lp to 2 individually cropped out view areas in full frame rate		
vaturation, contrast, orightness, sharpness, white balance, lay/night threshold, exposure mode, exposure zones, ompression, rotation: 0°, 90°, 180°, 270° including corridor ormat, mirroring, dynamic text and image overlay, privacy masks	- AV(S OL)	
xxis Zipstream, WDR, Lightfinder 2.0		Object classes: humans, vehicles (types: cars, buses, trucks, bikes) Scenarios: line crossing, object in area, time in area, crossline
Digital PTZ	, many cres	
		counting, occupancy in area, motion in area, motion line crossing Up to 10 scenarios
Automatic gain control O-band graphic equalizer for audio input Yoice enhancer through portcast technology Speaker pairing		Other features: triggered objects visualized with color-coded bounding boxes, polygon include/exclude areas, perspective configuration, ONVIF motion alarm event
wo-way (full duplex)	Scene metadata	Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates
nput through portcast technology		Object attributes: vehicle color, upper/lower clothing color,
Output through speaker pairing or portcast technology		confidence, position Audio data: audio level
	Approvals	Addio data: addio level
kHz, Opus 8/16/48 kHz, LPCM 48 kHz		CE ECC ICES DOM VCCI RIS
Configurable bitrate		TAA compliant
D. A. ID. O. LICEN D. ALICAND. O. LITTO LITTOCH. LITTOCH		EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2
LS <sup>b</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS Bonjour), UPnP <sup>®</sup> , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, ITP, NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, JHCPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 1164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf), IEEE	EIVIC	Australia/New Zealand: RCM AS/NZS CISPR 32 Class A Canada: ICES-3(A)/NMB-3(A) Japan: VCCI Class A Korea: KS C 9835, KS C 9832 Class A USA: FCC Part 15 Subpart B Class A
	Safety	IEC/EN/UL 62368-1, IS 13252
on  Den API for software integration, including VAPIX®, metadata  nd AXIS Camera Application Platform (ACAP); specifications at	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 IP42, IEC/EN 62262 IK08
uxis.com/developer-community. ACAP includes Native SDK.	Network	NIST SP500-267
layorror axxii liga layorror axxii liga layorror axxii liga layorror axxii liga layorror axxii l	mpression, rotation: 0°, 90°, 180°, 270° including corridor mat, mirroring, dynamic text and image overlay, privacy masks is Zipstream, WDR, Lightfinder 2.0 gital PTZ  tomatic gain control band graphic equalizer for audio input ice enhancer through portcast technology eaker pairing or band graphic equalizer for audio input ice enhancer through portcast technology eaker pairing or band graphic equalizer for audio input ice enhancer through portcast technology eaker pairing or band graphic equalizer for audio input ice enhancer through portcast technology eaker pairing or portcast technology (C-LC 8/16/32/44.1/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM eHz, Opus 8/16/48 kHz, LPCM 48 kHz infigurable bitrate  14, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPSb, HTTP/2, pb, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS onjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, P, NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, ICPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 64/5424, UDP/TCP/TLS), Link-Local address (ZeroConf), IEEE 2.1X (EAP-TLS), IEEE 802.1AR  en API for software integration, including VAPIX®, metadata d AXIS Camera Application Platform (ACAP); specifications at	y/night threshold, exposure mode, exposure zones, mpression, rotation: 0°, 90°, 180°, 270° including corridor mat, mirroring, dynamic text and image overlay, privacy masks is Zipstream, WDR, Lightfinder 2.0 gital PTZ  AXIS Object Analytics  Scene metadata  Scene metadata  Scene metadata  Scene metadata  Scene metadata  Approvals  Approvals  Product markings  Supply chain  EMC  Approvals  Product markings  Supply chain  EMC  Safety  Environment  Approvals  Product markings  Supply chain  EMC  Safety  Environment  Approvals  Product markings  Supply chain  EMC  Safety  Environment  Network

Cybersecurity	ETSI EN 303 645		
Cybersecurity			
Edge security	Software: Signed firmware, brute force delay protection, digest authentication, password protection Hardware: Axis Edge Vault cybersecurity platform 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) <sup>b</sup> , IEEE 802.1AR, HTTPS/HSTS <sup>b</sup> , TLS v1.2/v1.3 <sup>b</sup> , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering		
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/cybersecurity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity		
General			
Casing	IP42 water- and dust-resistant (to comply with IP42, follow Installation Guide), IK08 impact-resistant, polycarbonate/ABS casing Encapsulated electronics 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.		
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 2 Typical 3.6 W, max 4.2 W		
Connectors	Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE Audio: Audio and I/O connectivity via portcast technology		
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	Temperature: 0 °C to 40 °C (32 °F to 104 °F) Humidity: 10–85% RH (non-condensing)		
Storage conditions	Temperature: -40 °C to 65 °C (-40 °F to 149 °F) Humidity: 5–95% RH (non-condensing)		

Dimensions	For the overall product dimensions, see the dimension drawing in this datasheet.
Weight	150 g (0.33 lb)
Box content	Camera, installation guide
Optional accessories	AXIS TM3812 Tamper Cover AXIS T61 Audio and I/O Interface Series Black casing Smoked dome AXIS Surveillance microSDXC™ Card For more accessories, go to axis.com/products/axis-m3088-v#accessories
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	F
vvariancy	5-year warranty, see axis.com/warranty
Part numbers	Available at axis.com/products/axis-m3088-v#part-numbers
· ·	
Part numbers Sustainability Substance control	
Part numbers Sustainability Substance	Available at axis.com/products/axis-m3088-v#part-numbers  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,
Part numbers Sustainability Substance control	Available at axis.com/products/axis-m3088-v#part-numbers  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 echa.europa.eu  Renewable carbon-based plastic content: 57% (recycled) Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to

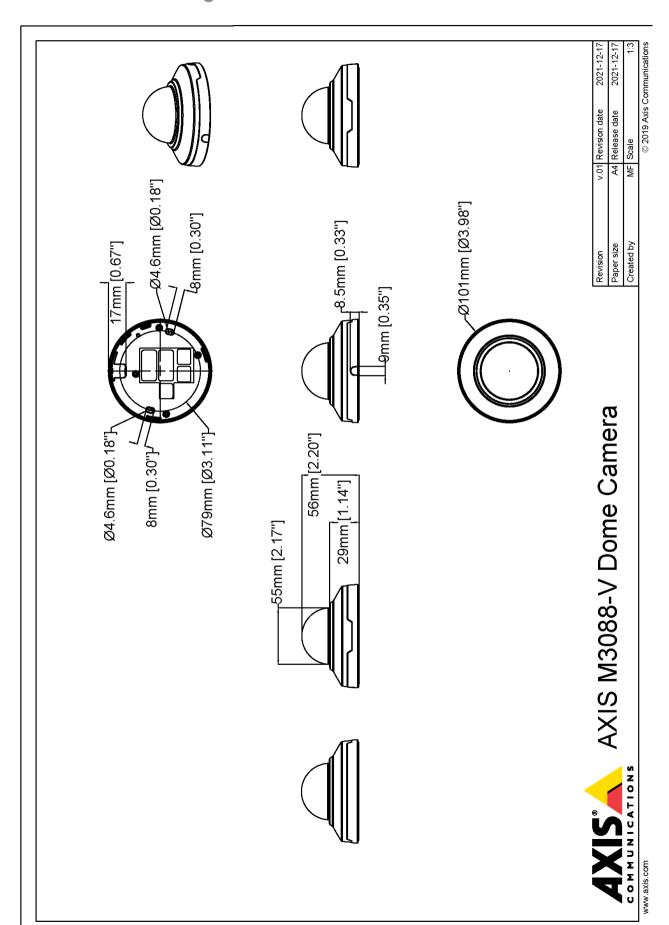
a. Reduced frame rate in Motion JPEG
 b. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).
 c. Available for download

### Detect, Observe, Recognize, Identify (DORI)

	DORI definition	Distance
Detect	25 px/m (8 px/ft)	82.9 m (271.9 ft)
Observe	63 px/m (19 px/ft)	32.9 m (107.9 ft)
Recognize	125 px/m (38 px/ft)	16.6 m (54.4 ft)
Identify	250 px/m (76 px/ft)	8.3 m (27.2 ft)

The DORI values are calculated using pixel densities for different use cases as recommended by the EN-62676-4 standard. The calculations use the center of the image as the reference point and consider lens distortion. The possibility to recognize or identify a person or object depends on factors such as object motion, video compression, lighting conditions, and camera focus. Use margins when planning. The pixel density varies across the image, and the calculated values can differ from the distances in the real world.

# **Dimension drawing**



www.cxis.com T10180116/EN/M15.2/2403

### Key features and technologies

#### **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 offers features to protect the device's identity, safeguard its integrity from factory and protect sensitive information from unauthorized access.

Establishing the root of trust starts at the device's boot process. In Axis devices, the hardware-based mechanism secure boot verifies the operating system (AXIS OS) that the device is booting from. AXIS OS, in turn, is cryptographically signed (signed firmware) during the build process. Secure boot and signed firmware tie into each other and ensure that the firmware has not been tampered with during the lifecycle of the device and that the device only boots from authorized firmware. This creates an unbroken chain of cryptographically validated software for the chain of trust that all secure operations depend on.

From a security aspect, 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 is provided through a Common Criteria and/or FIPS 140 certified hardware-based cryptographic computing module. Depending on security requirements, an Axis

device can have either one or multiple such modules, like a TPM 2.0 (Trusted Platform Module) or a secure element, and/or a system-on-chip (SoC) embedded Trusted Execution Environment (TEE).

Signed video ensures that video evidence can be verified as untampered without proving the chain of custody of the video file. Each camera uses its unique video signing key, which is securely stored in the secure keystore, to add a signature into the video stream. This allows video to be traced back to the Axis camera from where it originated, so it's possible to verify that the footage has not been tampered with after it left the camera.

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

#### 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

