



4K AI Motorised IR Vandal Dome Camera

CODE: CTX-8MP-IPC-VAN3-MW-V2



Motorised
Lens



4K/8MP
Resolution



40m IR
Range



People and
Vehicle Detection



AI
Features



Camera

Image Sensor	1/2.8" CMOS
Image Resolution	4K/8MP (3840 x 2160)
ROM	128MB
RAM	1GB
Scanning System	Progressive
Electronic Shutter Speed	Auto / Manual; 1/3s to 1/100,000s
Minimum Illumination	0.007 lux @ F1.4 (Colour, 30 IRE); 0.0007 lux @ F1.4 (Black / White, 30 IRE); 0 lux (Illuminator On)
S/N Ratio	>56dB
Illumination Distance	40m (131.23 ft.)
Illuminator On / Off Control	Auto / Manual
Illuminator Number	3 (IR LED)
Pan / Tilt / Rotation Range	Pan: 0°–355°; Tilt: 0°–80°; Rotation: 0°–355°



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Lens Information

Lens Type		Motorised Varifocal			
Lens Mount		ø14			
Focal Length		2.7mm to 13.5mm			
Maximum Aperture		F1.5			
Field of View		Horizontal: 109°–30°; Vertical: 56°–17°; Diagonal: 131°–35°			
Iris Control		Fixed			
Close Focus Distance		0.8m (2.62 ft.)			
DORI Distance	Lens	Detect	Observe	Recognise	Identify
	W	88.3m (289.70 ft.)	25.6m (115.81 ft.)	17.7m (58.07 ft.)	8.8m (28.87 ft.)
	T	289.7m (950.46 ft.)	115.7m (115.7 ft.)	57.9m (189.96 ft.)	29m (95.14 ft.)



Intelligent Functions

IVS (Perimeter Protection)	Tripwire & Intrusion (Classification and Detection of People & Vehicles)
AI SSA	Supported
Quick Pick (with AI NVR)	Picks up People & Vehicles of Interest from Recorded Events
Smart Search (with AI NVR)	Refined Intelligent Search, Event Extraction and Merging of Event Footage



Video

Video Compression	H.265 / H.264 / H.264H / H.264B / MJPEG (Only Supported by Sub-Stream)
Smart Codec	Smart H.265+ / Smart H.264+
AI Coding	AI H.265 / AI H.264



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Video (continued.)

Video Frame Rate	Main Stream: 3840 x 2160 @ (1-25/30 fps) Sub Stream 1: 704 x 576 @ (1-25 fps) / 704 x 480 @ (1-30 fps) Sub Stream 2: 1920 x 1080 @ (1-25/30 fps)
Stream Capability	3 Streams
Resolution	4K/8MP (3840 x 2160) 6MP (3072 x 2048) 5MP (3072 x 1728 / 2592 x 1944); 4MP (2688 x 1520); 3.6MP (2560 x 1440); 3MP (2048 x 1536); 3MP (2304 x 1296); 1080P / 2MP (1920 x 1080); 1.3MP (1280 x 960); 720P (1280 x 720); D1 (704 x 576 / 704 x 480); CIF (352 x 288 / 352 x 240); VGA (640 x 480)
Bit Rate Control	CBR / VBR
Video Bit Rate	H.264: 3 kbps to 8192 kbps; H.265: 3 kbps to 8192 kbps
Day / Night	Auto (ICR), Colour or Black / White
BLC	Supported
HLC	Supported
WDR	120 dB
Scene Self Adaptation (SSA)	Supported
White Balance	Auto, Natural, Street Lamp, Outdoor, Manual, Regional, Custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	On / Off (4 Rectangular Areas)
Image Stabilisation	Electronic Image Stabilisation (EIS)
Region of Interest (RoI)	Supported (4 Areas)
Defog	Supported
AFSA	Supported



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Video (continued.)

Image Rotation	0° / 90° / 180° / 270° (Supports 90° / 270° with 4MP Resolution (2688 x 1520) and Lower)
Mirror	Supported
Privacy Masking	Supported (4 Areas)



Audio

Built-In Microphone	Yes
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723



Alarm

Alarm Event	ZAS	Alarm in Case Of: - No SD Card - Full SD Card - SD Card Error - Network Disconnection - IP Conflict - Illegal Access - Motion Detection - Video Tampering - Intrusion - Tripwire - Scene Change - Audio Detection - Voltage Detection - Defocus Detection - External Alarm - People & Vehicle Detection - Safety Exception
	ZS	Alarm in Case Of: - No SD Card - Full SD Card - SD Card Error - Network Disconnection - IP Conflict - Illegal Access - Motion Detection - Video Tampering - Intrusion - Tripwire - Scene Change - Audio Detection - Voltage Detection - Defocus Detection - People & Vehicle Detection - Safety Exception



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Network

Network Port	RJ45 (10 / 100 Base-T)
SDK & API	Supported
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
Cyber Security	Video Encryption; Firmware Encryption; Configuration Encryption; Digest; WSSE; Account Lockout; Security Logs; IP / Mac Filtering; Generation and Importing of X.509 Certification; Syslog; HTTPS; 802.1x; Trusted Boot; Trusted Execution; Trusted Upgrade
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
User / Host	20 (Total Bandwidth: 64MB)
Storage	FTP; SFTP; Micro SD Card (Max. 256 G); NAS
Browser	IE11; Chrome; Firefox
Management Software	λ Cortex VMS
Mobile Client	iOS & Android



Certification

Certifications	- CE-LVD: EN62368-1 - CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU - FCC: 47 CFR FCC Part 15, Subpart B - UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14
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Ports

Audio Input	1 Channel (RCA Port) (Only Supported with ZAS)
Audio Output	1 Channel (RCA Port) (Only Supported with ZAS)
Alarm Input	1 Channel In: 5 mA 3-5 VDC (Only Supported with ZAS)
Alarm Output	1 Channel In: 300 mA 12 VDC (Only Supported with ZAS)



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Parameters & Dimensions

Power Supply	12VDC / PoE (802.3af)
Power Consumption	Standard: 4W (12 VDC); 4.9W (PoE) WDR + IR Intensity + Intelligent Features: 9.2W (12 VDC); 10.5W (PoE)
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Working Temperature	-30°C to +60°C (-22°F to +140°F)
Working Humidity	Less than 95% (RH)
Protection	IP67, IK10
Casing	Metal
Product Dimensions (L x W x H)	94mm x Φ122mm (3.70" x Φ4.80")
Net Weight	713g (1.57lb)
Gross Weight	986g (2.17lb)