



# 4K AI Fixed IR Vandal Dome Camera

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



Fixed Lens



4K/8MP Resolution



30m 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	30m (98.42 ft.)
Illuminator On / Off Control	Auto / Manual
Illuminator Number	3 (IR LED)
Pan / Tilt / Rotation Range	Pan: 0°–355°; Tilt: 0°–75°; Rotation: 0°–355°



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## Lens Information

Lens Type	Fixed Focal			
Lens Mount	M12			
Focal Length	2.8mm			
Maximum Aperture	F1.4			
Field of View	Horizontal: 107°; Vertical: 56°; Diagonal: 127°			
Iris Control	Fixed			
Close Focus Distance	1.1m (3.61 ft.)			
DORI Distance	<b>Detect</b>	<b>Observe</b>	<b>Recognise</b>	<b>Identify</b>
	87.8m (287.73 ft.)	35.1m (115.16 ft.)	17.5m (57.41 ft.)	8.8m (28.87 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	<p><b>Main Stream:</b> 3840 x 2160 @ (1-25/30 fps)</p> <p><b>Sub Stream 1:</b> 704 x 576 @ (1-25 fps) / 704 x 480 @ (1-30 fps)</p> <p><b>Sub Stream 2:</b> 1920 x 1080 @ (1-25/30 fps)</p>
<p><i>(These values are the maximum frame rates of each stream. For multiple streams, the values will be subjected to the total encoding capacity.)</i></p>	
Stream Capability	3 Streams
Resolution	<p><b>4K/8MP</b> (3840 x 2160)  <b>6MP</b> (3072 x 2048)  <b>5MP</b> (3072 x 1728 / 2592 x 1944);  <b>4MP</b> (2688 x 1520);  <b>3.6MP</b> (2560 x 1440);  <b>3MP</b> (2048 x 1536);  <b>3MP</b> (2304 x 1296);  <b>1080P / 2MP</b> (1920 x 1080);  <b>1.3MP</b> (1280 x 960);  <b>720P</b> (1280 x 720);  <b>D1</b> (704 x 576 / 704 x 480);  <b>CIF</b> (352 x 288 / 352 x 240);  <b>VGA</b> (640 x 480)</p>
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)
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	AS	<b>Alarm in Case Of:</b> <ul style="list-style-type: none"> <li>- No SD Card</li> <li>- Full SD Card</li> <li>- SD Card Error</li> <li>- Network Disconnection</li> <li>- IP Conflict</li> <li>- Illegal Access</li> <li>- Motion Detection</li> <li>- Video Tampering</li> <li>- Intrusion</li> <li>- Tripwire</li> <li>- Scene Change</li> <li>- Audio Detection</li> <li>- Voltage Detection</li> <li>- Defocus Detection</li> <li>- External Alarm</li> <li>- People &amp; Vehicle Detection</li> <li>- Safety Exception</li> </ul>
	S	<b>Alarm in Case Of:</b> <ul style="list-style-type: none"> <li>- No SD Card</li> <li>- Full SD Card</li> <li>- SD Card Error</li> <li>- Network Disconnection</li> <li>- IP Conflict</li> <li>- Illegal Access</li> <li>- Motion Detection</li> <li>- Video Tampering</li> <li>- Intrusion</li> <li>- Tripwire</li> <li>- Scene Change</li> <li>- Audio Detection</li> <li>- Voltage Detection</li> <li>- Defocus Detection</li> <li>- People &amp; Vehicle Detection</li> <li>- Safety Exception</li> </ul>



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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; P2P; Milestone; Genetec
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	<ul style="list-style-type: none"> <li>- CE-LVD: EN62368-1</li> <li>- CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU</li> <li>- FCC: 47 CFR FCC Part 15, Subpart B</li> <li>- UL/CUL: UL62368-1 &amp; CAN/CSA C22.2 No. 62368-1-14</li> </ul>
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## Ports

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



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## Parameters & Dimensions

Power Supply	12VDC / PoE (802.3af)
Power Consumption	<b>Standard:</b> 4W (12 VDC); 4.9W (PoE) <b>WDR + IR Intensity + Intelligent Features:</b> 8.5W (12 VDC); 9.7W (PoE)
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Working Temperature	-40°C to +60°C (-40°F to +140°F)
Working Humidity	Less than 95% (RH)
Protection	IP67, IK10
Casing	Metal
Product Dimensions (L x W x H)	89.1mm x Φ111.7mm (3.50" x Φ4.40")
Net Weight	516g (1.14lb)
Gross Weight	670g (1.48lb)