

## CTX-5MP-IPC-VAN-FW

### 5MP LITE AI IR NETWORK DOME



- 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 5MP (2592 × 1944)@20 fps
- H.265 codec, high compression rate, low bit rate
- Built-in IR LED, max. IR distance: 50 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, scene changing, audio abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Alarm: In, out; Audio: In, out; Supports max. 256 G Micro SD card
- 12V DC/POE power support
- IP67, IK10 protection
- SMD



#### System Overview

With advanced deep learning algorithm, Lite AI series network camera supports some intelligent functions, such as perimeter protection and smart motion detection. It adopts a starlight solution, which makes a better image effect in low illuminance.

#### Functions

##### Smart (H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, smart encoding technology realizes the higher efficiency than (H.265 & H.264 ), providing high-quality video, and reducing the cost of storage and transmission.

##### Wide dynamic range (WDR)

This camera adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back-light environment, bright region and dark region with strong light source, you can also get clear images.

##### Starlight

Starlight technology mainly applies to the environment of low illumination, and it can provide clear colourful video. Even in the environment of min. illumination, the technology can guarantee a good image effect.

#### Intelligent Video Analysis (IVS)

With advanced video algorithm, this camera supports intelligent detection, such as tripwire and intrusion and so on.

#### Smart Motion Detection (SMD)

With intelligent algorithm, Smart Motion Detection technology can effectively recognize the target types, flitting the motion detection alarm triggered by non-concerned target types. It can realize effective and accurate alarm.

#### Protection (IP67, IK10, wide voltage)

**IP67:** The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure works normal after soaking in 1 m deep water for 30 minutes.

**IK10:** The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 m (Impact energy is 20J).

**Wide voltage:** The camera allows  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with unstable voltage.

## CTX-5MP-IPC-VAN-FW

Technical Specification					
Camera					
Image Sensor		1/2.7" 5Megapixel progressive CMOS			
Effective Pixels		2592 (H) ×1944 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s			
Min. Illumination		0.005 Lux@F1.6			
IR Distance		50 m (164.0 ft)			
IR On/Off Control		Auto/Manual			
IR LEDs Number		3 (IR LEDs)			
Pan/Tilt/Rotation Range		Horizontal: 0°–355°; vertical: 0°–65°; rotation: 0°–355°			
Lens					
Lens Type		Fixed focal			
Mount Type		M12			
Focal Length		2.8 mm			
Max. Aperture		F1.6			
Field of View		2.8 mm: Horizontal: 98°; vertical: 72°; diagonal: 130° 3.6 mm: Horizontal: 80°; vertical: 59°; diagonal: 106° 6 mm: Horizontal: 50°; vertical: 36°; diagonal: 64°			
Iris Type		Fixed aperture			
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.3 ft) 6 mm: 3.2 m (10.5 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.8 ft)	5.6 m (18.4 ft)
	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.3 ft)
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4ft)
Professional, Intelligent					
Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)			
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos			
Video					
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG			
Smart Codec		Yes			
Video Frame Rate		Main stream (2592 × 1944@1–20 fps) (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)			
Stream Capability		3 streams			
Resolution		5M (2592 × 1944); 4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			

Bit Rate Control		CBR/VBR
Video Bit Rate		H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps
Day/Night		Auto(ICR)/Colour/B/W
BLC		Yes
HLC		Yes
WDR		120 dB
White Balance		Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control		Auto/Manual
Noise Reduction		3D DNR
Motion Detection		OFF/ON (4 areas, rectangular)
Region of Interest(Rol)		Yes (4 areas)
Smart IR		Yes
Image Rotation		0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution.)
Mirror		Yes
Privacy Masking		4 areas
Audio		
Audio Compression		G.711a; G.711Mu; G726; AAC
Network		
Network		RJ-45 (10/100 Base-T)
Protocol		IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP; Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP
Interoperability		ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Scene Self-adaptation		Yes
User/Host		20 (Total bandwidth: 64 M)
Edge Storage		FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
Browser		IE: IE8, IE9, IE11 Chrome Firefox
Management Software		Smart PSS, DSS, DMSS
Mobile Phone		IOS; Android
Certification		
Certifications		CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Port		
Audio Input		1-channel (RCA port)
Audio Output		1-channel (RCA port)
Alarm Input		1 channel in: 5mA 3V–5V DC
Alarm Output		1 channel out: 300mA 12V DC
Power		

Power Supply	12V DC/PoE (802.3af)
Power Consumption	<7.3W

Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than≤95%
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Ingress Protection	IP67; IK10

Structure

Casing	Metal
Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")
Net Weight	378 g (0.8 lb)
Gross Weight	523 g (1.2 lb)

Dimensions (mm[inch])

