## $\lambda \mid C \cap R \mid T \mid E \mid X$

## CTX-5MP-IPC-BUL5-MW

### 5MP AI IR VARIFOCAL NETWORK TURRET CAMERA



**Series Overview** 

With starlight and deep learning algorithm, this network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis.

#### **Functions**

#### **Face Detection**

Face detection technology can detect faces in images. With deep learning algorithms, the technology supports detecting, tracking, capturing and selecting the best face images, and then outputs face snapshots.

#### **Face Attributes**

With deep learning algorithms, the network camera can recognise face attributes, such as gender, age, expression, glasses, masks and beards.

#### **Perimeter Protection**

With deep learning algorithms, Perimeter Protection technology can recognise people and vehicles accurately. In restricted areas (such as pedestrian area and vehicle area), false alarms from intelligent analytics (such as tripwire, intrusion, fast moving objects, parking detection, loitering detection and gathering detection) are largely reduced.

#### **People Counting**

People Counting technology can track and process moving targets for accurate statistics of people entering, exiting, and gathering in an area. Working with management platforms, it outputs yearly/monthly/daily reports to meet your requirements.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2592 × 1944)@20 fps.
- Built-in IR LED, and the max. illumination distance is 60 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Three switchable intelligent resources: IVS, face detection, and people counting.
- Alarm: 2 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card.
- 12 VDC/PoE power supply, easy for installation.
- IP67 and IK10 protection; ePoE.
- SMD 3.0.













#### ePoE

ePoE technology offers a solution to transmit power and data over long distances between cameras and network switches, allowing more flexible design of surveillance systems, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

#### **Cyber Security**

This camera employs a series of security technologies, including security authentication and authorisation, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

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

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

IK10: The enclosure can stand more than 5 hits from a 5kg hammer falling from a height of 40 cm (Impact energy is 20J).

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

## CTX-5MP-IPC-BUL5-MW



Technical Specification						People Counting	Tripwire people counting and people counting in area; generating and exporting report (day/month/year);
Camera						People Counting	queue management; 4 rules can be set for tripwire, people counting in area and queue management
Image Sensor		1/2.7" CMOS				Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event
Max. Resolution		2592 (H) × 1944 (V)				\\'.d=-	videos
ROM		128 MB				Video	H.265; H.264; H.264H; H.264B; MJPEG (Only supported
RAM		1GB				Video Compression	by the sub stream)
Scanning System		Progressive				Smart Codec	Smart H.265+; Smart H.264+
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Al Coding	Al H.265; Al H.264
Min. Illumination		0.003 lux@F1.8 (Color, 30 IRE) 0.0003 lux@F1.8 (B/W, 30 IRE) 0 lux (Illuminator on)				Video Frame Rate	Main stream: 2592 × 1944@(1 fps–20 fps); 2688 × 1520@(1 fps–25/30 fps) Sub stream: D1@(1 fps–50/60 fps) Third stream: 1080p@(1 fps–50/60 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
S/N Ratio		>56 dB					
Illumination Distance		130 m (426.51 ft) (IR)				Stream Capability	3 streams
Illuminator On/Off Control		Auto					2592 × 1944; 2688 × 1520; 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)
Illuminator Number		4 (IR LED) Pan: 0°–360°				Resolution	
Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°				Bit Rate Control	CBR/VBR
Lens						Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 32 kbps-8192 kbps
Lens Type		Motorized vari-focal				Day/Night	Auto(ICR)/Color/B/W
Lens Mount		Module				BLC	Yes
Focal Length		7 mm–35 mm				HLC	Yes
Max. Aperture		F1.3				WDR	120 dB
Field of View		Horizontal: 31°–9° Vertical: 23°–7° Diagonal: 39°–11°				Scene Self-adaptation (SSA)	Yes
Iris Control		Hall				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Close Focus Distance		W-T: 0.4 m-2 m (1.31 ft-6.56 ft)				Gain Control	Auto; manual
ciose i ocus	Lens	Detect	Observe	Recognize	Identify	Noise Reduction	3D NR
DORI Distance		190 m	76 m	38 m	19 m	Motion Detection	OFF/ON (4 areas, rectangular)
	W	(623.36 ft)	(249.34 ft)	(124.67 ft)	(62.34 ft)	Region of Interest (RoI)	Yes (4 areas)
	Т	620 m (2,034.12 ft)	248 m (813.65 ft)	124 m (406.82 ft)	62 m (203.41 ft)	Image Stabilization	Electronic Image Stabilization (EIS)
Smart Event						Smart Illumination	Yes
IVS		Abandoned object; missing object				Defog	Yes
Heat Map		Yes				Image Rotation	0°/90°/180°/270°
Professional, intellige						Mirror	Yes
Intrusion, tripwire, fast moving (the three functions				ing (the three f	unctions	Privacy Masking	8 areas
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection				Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
SMD 3.0		Less false alarm, longer detection distance					. 3.11, 3.7110, 3.711010, 3.720, 3.723
55 5.0		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and				Alarm	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; defocus detection; tripwire; intrusion; fast moving; abandoned object; missing
Face Detection		8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot,				Alarm Event	object; loitering detection; people gathering; parking detection; scene changing; input error; voltage detection face detection: people counting in area: stay detection:

### CTX-5MP-IPC-BUL5-MW

# $\lambda \mid C \cap R \mid T \mid E \mid X$

Network						
Network Port	RJ-45 (10/100 Enhancement Base-T)					
SDK and API	Yes					
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					
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; Bonjour					
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone					
User/Host	20 (Total bandwidth: 88 M)					
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS					
Browser	IE: IE8 and later Chrome Firefox					
Management Software	Smart PSS, DSS, DMSS					
Mobile Client	iOS; Android					
Certification						
Certifications	CE-LVD: EN 62368-1 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	2 channels in: 5 mA 3–5 VDC					
Alarm Output	1 channel out: 300 mA 12 VDC					
Power						
Power Supply	12 VDC (±30%); PoE (802.3af); ePoE					
Power Consumption	Basic: 3 W (12 VDC); 3.7 W (PoE) Max. (max. stream + IR LED + focus): 9.9 W (12 VDC); 10.9 W (PoE)					
Environment						
Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)					
Operating Humidity	≤95%					
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)					
Protection	IP67; IK10					
Structure						
Structure Casing	Metal + plastic					
	Metal + plastic 273.2 mm × 95 mm × 95 mm (10.76" × 3.74" × 3.74") (L × W × H)					
Casing	273.2 mm × 95 mm × 95 mm (10.76" × 3.74" × 3.74") (L					

Gross Weight 1510 g (3.33 lb)

