CSP-IPBX8-A

8MP IR Vari-focal Bullet Network Camera



SMD is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, SMD provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

Driven by deep learning algorithms, AI Series network camera offers a variety of intelligent functions that greatly improve the accuracy of audio and video analysis. It supports video metadata, smart sound detection, face detection, perimeter protection, people counting and more. The camera also adopts advanced image processing AI-Powered Image technology and has the Deeplight night vision effect. The camera is dustproof, waterproof and vandal-proof, and is certified as IP67 and IK10 (the type of protection varies depending on the model).

Functions

AI-Powered Image

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

Perimeter Protection

With deep learning algorithm, Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Face Detection

Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

People Counting

With deep learning algorithm, People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs reports to meet your requirements.

- * 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- * Outputs max. 8MP (3840×2160) @25/30 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.
- * With deep learning algorithm, it supports: video metadata, smart sound detection, IVS, face detection, smart object detection, and people counting, etc.
- * Alarm: 2 in, 1 out; audio: 1 in, 1 out; supports max. 512 GB Micro SD card, built-in MIC.
- * 12 VDC/PoE power supply; ePoE.
- * IP67 and IK10 protection.
- * SMD 3.0.













Video Metadata

With deep learning algorithm, Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

Smart Sound Detection

With deep learning algorithm, Smart Sound Detection technology can detect and identifies the sound of scream and glass breaking, etc.

Cyber Security

Network cameras employ a series of security technologies, including security authentication and authorization, 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 dust-proof function, and the enclosure can work normally after soaking in $1\,\mathrm{m}$ 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 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 environment with instable voltage.

AcuPick

AI SSA

CSP-II	ARX8-H						
Technic	cal Specificati	on					Face detection; track; snapshot; snapshot optimization;
Camera						Face Detection	optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face,
Image Sensor		1/1.8" CMOS				race Bettetton	one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot);
Max. Resolution		3840 (H) × 21	160 (V)				face angle filter; optimization time setting Tripwire people counting, generating and exporting
ROM		4 GB				People Counting	report (day/week/month/year); people counting in area and queue management, generating and exporting
RAM		2 GB					report (day/week/month); 4 rules can be set for tripwire, people counting in area and queue management.
Scanning System		Progressive				Heat Map	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Motor vehicle, non-motor vehicle, face, human body
Min. Illumination			F1.8 (Color, 30 F1.8 (B/W, 30 II ator on)				detection; track; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes: seatbelt, smoking, calling. Non-motor vehicle attributes: type, color, number of people, top type and color, hat. Human body attributes: gender, top/bottom type and color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.
S/N Ratio		>56 dB				Video Metadata	
Illumination Distance		Up to 60 m (2	196.85 ft) (IR)				
Illuminator On/Off Control		Auto; Zoomp	rio; Manual				
Illuminato	or Number	4 (IR LED)				Count Count	Work together with Smart NVR to perform refine
Angle Adjustment		Pan: 0°-360° Tilt: 0°-90° Rotation: 0°-				Smart Search	intelligent search, event extraction and merging to event videos
Lens		ROTATION: 0 -	-300			Smart Sound Detection	Yes
Lens Type		Motorized va	ıri-focal			Video	
Lens Nount		ф14				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Focal Length		2.7 mm-12 n	nm			Smart Codec	Smart H.265+; Smart H.264+
Max. Aperture		F1.8				Al Coding	AI H.265; AI H.264
Field of View		H: 113°–47°; V: 60°–26°; D: 133°–53°					Main stream: 3840 × 2160@(1–25/30 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) Fourth stream: 720p@(1–10 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.
Iris Control		Auto				Video Frame Rate	
Close Focus Distance		1.5 m (4.92 ft)					
	Lens	Detect	Observe	Recognize	Identify	Stream Capability	4 streams
	W	83.4 m (273.62 ft)	33.4 m (109.58 ft)	16.7 m (54.79 ft)	8.3 m (27.23 ft)		8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728); 5M (2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 ×
DORI Distance	Т	189.6 m (622.05 ft)	75.8 m (248.69 ft)	37.9 m (124.34 ft)	19.0 m (62.34 ft)	Resolution	
	(EN-62676-4	ct, Observe, R I) for defining	the ability of a	a person view	ing the		288/352 × 240)
	numbers in	inguish person	ot reflect inte	lligent functio	on distances.	Bit Rate Control	CBR/VBR
	0	nt function dis ing manual/pr	,		and	Video Bit Rate	H.264: 32 kbps–16384 kbps H.265: 12 kbps–13568 kbps
Intelligence						Day/Night	Auto(ICR)/Color/B/W
EPTZ		Yes				BLC	Yes
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection				HLC	Yes
		of vehicle and human); loitering detection, people gathering, and parking detection				WDR	120 dB
Smart Object Detection		Smart abandoned object; smart missing object				Scene Self-adaptation (SSA)	Yes
SMD		SMD 3.0				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
		Uses deep le	arning algorith	ms and works v	with back-end		custom

Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.

Yes

Auto 3D NR

Gain Control

Noise Reduction

Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Image Stabilization	Electronic Image Stabilization (EIS)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M (2688 × 1520) resolution and lower)
Mirror	Yes
Privacy Masking	8 areas
LDC	Yes
Audio	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception; defocus detection
Network	
Network Port	RJ-45 (10/100 Enhancement Base-T)
SDK and API	Yes
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; P2P
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS
Browser	IE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and later
Management Software	SmartPSS Lite; DSS; DMSS
Mobile Client	iOS; Android
Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification
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
Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)

Alarm Input	2 channels in: wet contact, 5mA 3V–5V DC		
Alarm Output	1 channel out: wet contact, 300mA 12V DC		
Power			
Power Supply	12 VDC/PoE (802.3af)/ePoE		
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.		
Power Consumption	Basic: 4.0 W (12 VDC); 5.3 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 10.2 W (12 VDC); 12.8 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)		
Storage Humidity	10%–95% (RH), non-condensing		
Protection	IP67; IK10		
Structure			
Casing Material	Metal + plastic		
Product Dimensions	273.2 mm \times 95.0 mm \times 95.0 mm (10.76" \times 3.74" \times 3.74") (L \times W \times H)		
Net Weight	1.12 kg (2.47 lb)		

Ordering Information							
Туре	Model	Description					
8MP	CSP-IPBX8-A	8MP IR Vari-focal Bullet WizMind Network Camera					
Camera							
Accessories (Optional)	CSP-JB3	Water-proof Junction Box					

1.66 kg (3.66 lb)

Gross Weight

Accessories

Optional:







Water-proof Junction Box

Pole mount Bracket

12 VDC 1 A Power Adapter

Dimensions (mm[inch])







