CSP-IPB4-A

4MP IR Fixed-focal Bullet AI Network Camera



SMD is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on our advanced technologies, it provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, SMD Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

SMD Plus

With intelligent algorithm, Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

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) are largely reduced.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 \times 1520)@20 fps, and supports 2560 \times 1440@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 30 m.
- ROI, SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
- Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply.
- IP67 protection.
- · SMD Plus.













WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Cyber Security

Our 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 comprising the device.

Protection (IP67, 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 m deep water for 30 minutes.

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.

Technical Specification								Main stream: 2688 × 1520@ (1–20 fps)/2560 × 1440@ (1–25/30 fps) Sub stream: 704 × 576@ (1–25 fps)/704 × 480@ (1–30 fps)
Camera						,	Video Frame Rate	
Image Sensor		1/2.9" CMOS					video Frame Nate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Max. Resolution		2688 (H) × 1520 (V)						to the total encoding capacity.
ROM		128 MB					Stream Capability	2 streams
RAM		128 MB					Resolution	4M (2688 × 1520); 4M (2560 × 1440); 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)
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumination		0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
S/N Ratio		>56 dB					Day/Night	Auto (ICR)/Color/B/W
Illumination Distance		30 m (98.43 ft) (IR LED)					BLC	Yes
Illuminator On/Off Control		Auto; manual					HLC	Yes
Illuminator N	Illuminator Number		1 (IR LED)				WDR	120 dB
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
			Rotation: 0°–360°				Gain Control	Auto; manual
Lens							Noise Reduction	3D NR
Lens Type		Fixed-focal					Motion Detection	OFF/ON (4 areas, rectangular)
	Lens Mount		M12				Region of Interest (RoI)	Yes (4 areas)
Focal Length Max. Aperture		2.8 mm F1.6					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
sar riper ture		2.8mm: H: 95°; V: 52°; D: 114°;					Mirror	Yes
Field of View		2.011111.11. 55	, v. 52 , D. 13	. . ,			Privacy Masking	4 areas
Iris Control		Fixed					Audio	
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft);					Built-in MIC	Yes
0.000 1.0000 2.000.000							Audio Compression	G.711a; G.711Mu; PCM; G.726
	Lens	Detect	Observe	Recognize	Identify		Alarm	
DORI Distance	2.8 mm	63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)	6.4 m (20.99 ft)		Alarm Event	No SD card; SD card full; SD card error; network disconnecton; IP conflict; illegal access; moton detecton; video tampering; tripwire; intrusion; SMD; voltage detecton; security excepton
Intelligence							Network	
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)					Network Port	RJ-45 (10/100 Base-T)
Smart Search			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				SDK and API	Yes
Video		videos					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP
		H.264H; H.265; H.264; H.264B; MJPEG (Only supported					Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone
Video Compression		by the sub stream)					User/Host	6 (Total bandwidth: 36 M)
Smart Codec		Smart H.265+; Smart H.264+					Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
							Browser	IE Chrome Firefox

DSS; DMSS

Management Software

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COLUMN A								
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;Generation and importing of X.509 certification							
Certification								
Certifications	CE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B							
Power								
Power Supply	12 VDC/PoE (802.3af)							
Power Consumption	Basic: 2.5 W (12 VDC); 3.3 W (PoE); Max. (ICR + H.265 + max. resolution + main stream + IR intensity + WDR + IVS): 4.2 W (12 VDC); 5.1 W (PoE)							
Environment								
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)							
Operating Humidity	≤95%							
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)							
Protection	IP67							

Metal

 \times W \times H)

0.48 kg (1.06 lb)

0.59 kg (1.30 lb)

166.2 mm \times 70 mm \times 70 mm (6.54" \times 2.76" \times 2.76") (L

Structure

Net Weight

Gross Weight

Casing Material

Product Dimensions

Ordering Information									
Туре	Model	Description							
4MP camera	CSP-IPB4-A	4MP IR Fixed-focal Bullet AI Network Camera							

Dimensions (mm[inch])

