CSP-IPAD8-A

8MP IR Vari-focal Dome IP Network Camera



Smart Detection 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. Advanced technologies provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, 3 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.

- 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (3840 \times 2160) @20 fps (AI function enabled by default) and supports 8MP (3840 \times 2160) @25/30 fps (when AI function disabled)
- H.265 codec, high compression rate, low bit rate
- Built-in IR LED, max. IR distance: 40 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 (support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection (Only - ZAS supports), no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection
- Alarm: 1 in, 1 out (Only ZAS supports); audio: 1 in, 1 out (Only - ZAS supports)
- · Supports max. 256 G Micro SD card
- 12V DC/PoE power supply
- IP67, IK10 protection
- · SMD Plus













Starlight

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

Cyber Security

IP network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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 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 cm (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 instable voltage.



Technical S _I	pecificati	on						Main stream: 3840 × 2160 @(1–20 fps by default)	
Camera							Video Frame Rate	3840 × 2160 @(1–25/30 fps when Al function disabled) sub stream:	
Image Sensor		1/2.8"8Megapixel progressive CMOS						$704 \times 576 @ (1-25 \text{ fps})/704 \times 480 @ (1-30 \text{ fps})$ third stream:	
Max. Resolution	n	3840 (H) × 21	160 (V)				Character Council like	1920 × 1080 @(1–25/30 fps)	
ROM		128 MB					Stream Capability	3 streams 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×	
RAM		512 MB					Resolution	1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 ×	
Scanning Syster	m	Progressive					Resolution	960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Electronic Shutt	ter Speed	Auto/Manual	al 1/3 s–1/100,000 s				Bit Rate Control	CBR/VBR	
Min. Illuminatio	on		1.5 (Color, 30IF F1.5 (B/W, 30II nator on)				Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps	
S/N Ratio		> 56 dB					Day/Night	Auto (ICR)/Color/B/W	
Illumination Dis	stance	40 m (131.2 f	ft)				BLC	Yes	
Illuminator On/Off Control		Auto/Manual					HLC	Yes	
Illuminator Nun	mber	2 (IR LED)					WDR	120 dB	
		Pan: 0°-355°	o				Scene Self-adaptation (SSA)	Yes	
Pan/Tilt/Rotation Range		Tilt: 0°–75° Rotation: 0°–355°					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Lens							Gain Control	Auto/Manual	
Lens Type		Motorized va	ri-focal				Noise Reduction	3D DNR	
Mount Type		ф14					Motion Detection	OFF/ON (4 areas, rectangular)	
Focal Length		2.7 mm-13.5	mm				Region of Interest (RoI)	Yes (4 areas)	
Max. Aperture		F1.5					Smart Illumination	Yes	
Field of View		Horizontal: 1: Vertical: 58°– Diagonal: 138	-17°				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)	
Iris Type		Fixed	3 –30				Mirror	Yes	
Close Focus Distance		0.8 m (2.6 ft)					Privacy Masking	4 areas	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Audio		
Electronic Share	Lens	Detect	Observe	Recognize	Identify		Audio Compression	G.711a; G.711Mu; G726	
		85.3 m	34.1 m	17.0 m	8.5 m		Alarm		
DORI Distance	W	(279.9 ft) 280.0 m	(111.9 ft) 112.0 m	(55.8 ft) 56.0 m	(27.9 ft) 28.0 m			- ZAS: No SD card; SD card full; SD card error; ; network disconnection; IP conflict; illegal access; motion	
Professiona	T Lintolliga	(918.6 ft)	(367.5 ft)	(183.7 ft)	(91.9 ft)			detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection;	
			usion (sunnort	the classification	in and		Alarm Event	defocus detection; external alarm; SMD; safety exception	
Perimeter Prote	ection		ection of vehicl		iii aiia		Aldini Event	- ZS: No SD card; SD card full; SD card error; ; network	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.						disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; voltage detection; defocus detection; SMD; safety exception	
Video	Video						Network		
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Network	RJ-45 (10/100 Base-T)	
Smart Codec		Smart H.265-	+/ Smart H.264	+			SDK and API	Yes	

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: 72 M)	
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Browser	IE: IE8; IE9; IE11 Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS	
Mobile Phone	IOS; Android	
Certification		
Certifications	CE-LVD: EN62368-1 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) (Only- ZAS supports)	
Audio Output	1 channel (RCA port) (Only- ZAS supports)	
Alarm Input	1 channel in: 5mA 3V–5V DC (Only- ZAS supports)	
Alarm Output	1 channel out: 300mA 12V DC (Only- ZAS supports)	
Power		
Power Supply	12V DC/PoE (802.3af)	
Power Consumption	Basic power consumption: 2.7W (12V DC); 3.3W (PoE) Max. power consumption (WDR + H.265 + IR LED intensity): 6.8W (12V DC); 8.2W (PoE)	
Environment		
Operating Conditions	−30°C to +60°C (−22°F to +140°F)/Less than 95% RH	
Storage Conditions	-40°C to +60°C (-40°F to +140°F)	
Protection Grade	IP67; IK10	
Structure		
Casing	Metal	
Dimensions	88.9 mm × Φ122 mm (3.5" × Φ4.8")	
Net Weight	492 g (1.1 lb)	
Gross Weight	663 g (1.5 lb)	

Dimensions (mm[inch])

