IB3821-VS

8MP IR Vari-focal Bullet WizSense Network Camera

PADMAX





Launched by Padmax Technology, WizSense is a series of Al products and solutions that adopt independent Al chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Padmax WizSense 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, Padmax 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, Padmax 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, Padmax 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 (Al function enabled by default) and supports 8MP (3840 \times 2160) @25/30 fps (when Al function disabled)
- · H.265 codec, high compression rate, low bit rate
- Built-in IR LED, max. IR distance: 60 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 support), 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(optional) protection
- · SMD Plus













Starlight

Padmax 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

Padmax 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, 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.

Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.





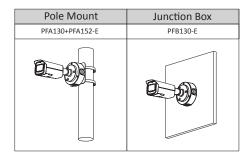
Technical Specifica	tion							
Camera							Main stream: 3840 × 2160 @(1–20 fps by default)	
Image Sensor	1/2.8"8Mega	1/2.8"8Megapixel progressive CMOS				Video Frame Rate	$3840 \times 2160 \ @(1-25/30 \ fps \ when Al function disabled)$ sub stream: $704 \times 576 \ @(1-25 \ fps)/704 \times 480 \ @(1-30 \ fps)$ third stream: $1920 \times 1080 \ @(1-25/30 \ fps)$	
Max. Resolution	3840 (H) × 23	3840 (H) × 2160 (V)						
ROM	128 MB	128 MB						
RAM	512 MB	512 MB				Stream Capability	3 streams	
Scanning System	Progressive	Progressive				Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Electronic Shutter Speed	Auto/Manua	Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination	0.0007 Lux@	0.007 Lux@F1.5 (Color, 30IRE) 0.0007 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)				Bit Rate Control		
S/N Ratio	> 56 dB						H.264: 3 kbps–8192 kbps	
Illumination Distance	60 m (197 ft)	60 m (197 ft)				Video Bit Rate	H.265: 3 kbps–8192 kbps	
Illuminator On/Off Contr	ol Auto/Manua					Day/Night	Auto (ICR)/Color/B/W	
Illuminator Number	4 (IR LED)	4 (IR LED)				BLC	Yes	
	Pan: 0°–360					HLC	Yes	
Pan/Tilt/Rotation Range	Tilt: 0°-90°					WDR	120 dB	
Lens						Scene Self-adaptation (SSA)	Yes	
Lens Type	Motorized va	Motorized vari-focal				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Mount Type	ф14	ф14				Gain Control	Auto/Manual	
Focal Length	2.7 mm-13.5	2.7 mm-13.5 mm				Noise Reduction	3D DNR	
Max. Aperture	F1.5	F1.5				Motion Detection	OFF/ON (4 areas, rectangular)	
Field of View	Horizontal: 113°–31° Vertical: 58°–17° Diagonal: 138°, 36°					Region of Interest (RoI)	Yes (4 areas)	
Iris Tuno	Diagonal:138°-36°				Smart Illumination	Yes		
Iris Type Close Focus Distance		0.8 m (2.6 ft)				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)	
Lens	Detect	Observe	Recognize	Identify		Mirror	Yes	
	85.3 m	34.1 m	17.0 m	8.5 m		Privacy Masking	4 areas	
DORI Distance W	(279.9 ft)	(111.9 ft)	(55.8 ft)	(27.9 ft)		Audio		
Т	280.0 m (918.6 ft)	112.0 m (367.5 ft)	56.0 m (183.7 ft)	28.0 m (91.9 ft)		Audio Compression	G.711a; G.711Mu; G726	
Professional, intelligent						Alarm		
IVS (Perimeter Protectio		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)				Alarm Event	-ZAS: No SD card; SD card full; SD card error; service life warning (only supported by card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; safety exception	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.						
Video							-ZS: No SD card; SD card full; SD card error; service life	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					warning (only supported by card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; voltage detection; defocus detection; SMD; safety exception	
Smart Codec	Smart H.265	Smart H.265+/ Smart H.264+						

Network				
Network	RJ-45 (10/100 Base-T)			
SDK and API	Yes			
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTN 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 lo IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trust execution; trusted upgrade			
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; 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; EasyViewer Pro			
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: 3.0W (12V DC); 3.5W (PoE) Max. power consumption (WDR + H.265 + IR LED intensity): 9.2W (12V DC); 10.7W (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			
Structure				
Casing	Metal			
Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.6" × 3.1" × 3.0") (L × W × H)			

Net Weight Gross Weight 820g (1.8 lb)

1090g (2.4 lb)





Dimensions (mm[inch])

