

PADMAX

IB3821-FS

8MP IR Fixed focal Bullet WizSense Network Camera



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 PADMAX 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: 30 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, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection
- Alarm: 1 in, 1 out (Only AS supports); audio: 1 in, 1 out (Only - AS supports)
- · Supports max. 256 G Micro SD card, built-in Mic
- 12V DC/PoE power supply
- · IP67 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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.







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

Technical Sp	pecification	on				Stream Capability	3 streams
Camera							984 (2940 v. 2150); 584 (2072 v. 2040); 584 (2072)
Image Sensor		1/2.8″8Mega	pixel progressi	ve CMOS		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 ×
Max. Resolution	n	3840 (H) × 2	160 (V)			nesolution	960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
ROM		128 MB					
RAM		512 MB				Bit Rate Control	CBR/VBR
Scanning System	m	Progressive				Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps
Electronic Shutt	ter Speed	Auto/Manua	I 1/3 s-1/100,0	00 s		Day/Night	Auto (ICR)/Color/B/W
Min. Illuminatio	on		1.4 (Color, 30IF F1.4 (B/W, 30IF nator on)			BLC HLC	Yes
S/N Ratio		> 56 dB	7530-301				
Illumination Dis	tance	30 m (98.4 ft	Y			WDR	120.dB
Illuminator On/		Auto/Manua				Scene Self-adaptation (SSA)	Yes
Illuminator Nun		1 (IR LED)	•			White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Day /Tile /Datati	D	Pan: 0°-360' Tilt: 0°-90°				Gain Control	Auto/Manual
Pan/Tilt/Rotation	on Kange	Rotation: 0°-	360°			Noise Reduction	3D DNR
Lens						Motion Detection	OFF/ON (4 areas, rectangular)
Lens Type		Fixed-focal				Region of Interest (RoI)	Yes (4 areas)
Mount Type		M12				Smart Illumination	Yes
Focal Length		2.8 mm; 3.6	mm			Image Rotation	0°/90°/180°/270" (Support 90°/270° with 1080p
Max. Aperture		F1.4					resolution and lower.)
Field of View			izontal 108° × V izontal 85° × Ve		CANCELLO DEL MODELO	Mirror	Yes
Iris Type		Fixed				Privacy Masking	4 areas
Close Focus Dist	tance	2.8 mm; 1.4 3.6 mm; 2.4				Audio Built-in MIC	Yes
	Lens	Detect	Observe	Recognize	Identify	Audio Compression	G.711a; G.711Mu; G726
DORI Distance	2.8 mm	85.5 m (280.5 ft)	34.2 m (112.2 ft)	17.1 m (56.1 ft)	8.6 m (28.2 ft)	Alarm	
	3.6 mm	110.3 m (361.9 ft)	44.1 m (144.7 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)		- AS: No SD card; SD card full; SD card error; service life
Professional	l, intellige	ent					warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion
Perimeter Prote	ection		usion (support ection of vehicl		on and		detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; external alarm; SMD; safety exception
Intelligent Searc	ch		er with Smart N arch, event ext			Alarm Event	-SA: No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion
Video		Vi nee		** * * * * * * * * * * * * * * * * * * *			detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; SMD; safety exception
Video Compres	sion	h.265; H.264 by the sub st	; H.264H; H.26 ream)	4B; MJPEG (on	y supported	NE approximately	socy enceptor
Smart Codec		Smart H.265	+/ Smart H.264	t		Network	DL 45 (40 (400 Days) T)
		Main stream 3840 × 2160	: @(1–20 fps by	default)		Network	RJ-45 (10/100 Base-T)
Video Frame Ra	ate	3840 × 2160 sub stream:	@(1-25/30 fps	when Al funct		SDK and API	Yes IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP

Protocol

704 × 576 @(1-25 fps)/704 × 480 @ (1-30 fps)

third stream:

1920 × 1080 @(1-25/30 fps)



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5.	
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

8MP Camera	IB3821-FS	8MP IR Fixed focal Bullet WizSense Network Camera, NTSC
	IB3821-FS	8MP IR Fixed focal Bullet WizSense Network Camera, PAL
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	PFA130-E	Junction Box
Accessories (optional) LP1002.1ET/1EC Single-port Lo	PFA152-E	Pole Mount
	DC12V1A Power Adapter	
	Single-port Long Reach Ethernet over Coax Extender	
	PFM900-E	Integrated Mount Tester
	PFM114	TLC SD Card

Port

Audio Input	1 channel (RCA port) (Only-AS supports)
Audio Output	1 channel (RCA port) (Only- AS supports)
Alarm Input	1 channel in: 5mA 3V–5V DC (Only- AS supports)
Alarm Output	1 channel out: 300mA 12V DC (Only- AS supports)

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic power consumption: 3W (12V DC); 3.5W (PoE) Max. power consumption (WDR + H.265 + IR LED intensity): 5.5W (12V DC); 6.3W (PoE)

Environment

Operating Conditions	-40°C to +60°C (-40°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	192.7 mm × 70.5 mm × 66.4 mm (7.6" × 2.8" × 2.6") (L × W × H)
Net Weight	590 g (1.3 lb)
Gross Weight	780 g (1.7 lb)

Orderin	g Information	
Туре	Model	Description
	IB3821-FS	8MP IR Fixed focal Bullet WizSense Network Camera, PAL
8MP Camera	IB3821-FS	8MP IR Fixed focal Bullet WizSense Network Camera, NTSC
	IB3821-FS	8MP IR Fixed focal Bullet WizSense Network Camera, PAL

Accessories

Optional:







PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

Pole Mount	Junction Box
PFA130-E+PFA152-E	PFA130-E





Dimensions (mm[inch])

