

DH-IPC-HDBW3841E-(A)S

8MP IR Fixed focal Dome WizSense Network Camera





Launched by Dahua Technology, WizSense 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 Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Dahua 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, Dahua 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, Dahua 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, Dahua 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.

- 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (3840×2160) @20 fps (Al function enabled by default)and supports 8MP (3840×2160) @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 (Only - AS 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 AS supports); audio: 1 in, 1 out (Only AS supports)
- · Supports max. 256 G Micro SD card
- 12V DC/PoE power supply
- IP67, IK10 protection
- SMD Plus













Starligh

Dahua 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.

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.

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

Technical Specific	ation						8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×
Camera				Resolution	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		
Image Sensor	1/2.8"8Megapixe	1/2.8"8Megapixel progressive CMOS				Dit Data Cautual	(640 × 480); CIF (352 × 288/352 × 240)
Max. Resolution	3840 (H) × 2160 (3840 (H) × 2160 (V)				Bit Rate Control	CBR/VBR H.264: 3 kbps-8192 kbps
ROM	128 MB	128 MB				Video Bit Rate	H.265: 3 kbps–8192 kbps
RAM	512 MB	512 MB				Day/Night	Auto (ICR)/Color/B/W
Scanning System	Progressive	Progressive				BLC	Yes
Electronic Shutter Spee	Auto/Manual 1/3	3 s-1/100,00	00 s			HLC	Yes
Min. Illumination	0.007 Lux @F1.4					WDR	120 dB
S/N Ratio	> 56 dB	> 56 dB				Scene Self-adaptation	Yes
Illumination Distance	30 m (98.4 ft)					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator On/Off Con						Gain Control	Auto/Manual
Illuminator Number	3 (IR LED)					Noise Reduction	3D DNR
Pan/Tilt/Rotation Range						Motion Detection	OFF/ON (4 areas, rectangular)
Lens					Region of Interest (RoI)	Yes (4 areas)	
Lens Type	Fixed-focal	Fixed-focal				Smart Illumination	Yes
Mount Type	M12					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Focal Length	2.8 mm	2.8 mm				Mirror	Yes
Max. Aperture	F1.4	F1.4				Privacy Masking	4 areas
Field of View	2.8 mm: Horizont	tal 108° × Ve	ertical 58° × Di	agonal 127°		Audio	
Iris Type	Fixed					Audio Compression	G.711a; G.711Mu; G726; AAC (Only- AS supports)
Close Focus Distance	2.8 mm: 1.4 m (4.	l.6 ft)				Alarm	
Len	Detect C	Observe	Recognize	Identify			- AS: No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; external alarm; SMD; safety exception - S: No SD card; SD card full; SD card error; service life
DORI Distance 2.8 m Professional, Intel	(280.5 π)	3 2.2 ft)	17.1 m (56.1 ft)	8.6 m (28.2 ft)			
Perimeter Protection	Tripwire; intrusion			n and		Alarm Event	
accurate detection of vehicle and human) Work together with Smart NVR to perform refine intelligent Search intelligent search, event extraction and merging to event videos.					warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; voltage detection; SMD; safety exception		
Video						Network	
Video Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported				Network	RJ-45 (10/100 Base-T)		
Smart Codec		by the sub stream) Smart H.265+/ Smart H.264+				SDK and API	Yes
Smare Godec	Main stream: 3840 × 2160 @(1-					Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP
Video Frame Rate	sub stream: $704 \times 576 @(1-2)$ third stream:	704 × 576 @(1–25 fps)/704 × 480 @ (1–30 fps)				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
	1920 × 1080 @(1-	1920 × 1080 @(1–25/30 fps)				User/Host	20 (Total bandwidth: 72 M)
Stream Capability	3 streams	3 streams				Storage	Dahua Cloud (only supported by Dahua version); FTP; SFTP; Micro SD card (support max. 256 G); NAS

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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 - 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: 2.7W (12V DC); 3.6W (PoE) Max. power consumption (WDR + H.265 +IR LED intensity): 6W (12V DC); 7W (PoE)	
Environment		
Operating Conditions	$-40^{\circ}\text{C to } +55^{\circ}\text{C} (-40^{\circ}\text{F to } +131^{\circ}\text{F})/\text{Less than } 95\% \text{ RH}$	
Storage Conditions	-40°C to +60°C (-40°F to +140°F)	
Protection Grade	IP67; IK10	
Structure		
Casing	Metal	
Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")	
Net Weight	378 g (0.8 lb)	

Ordering Information				
Туре	Model	Description		
8MP Camera	DH-IPC-HDBW3841EP-AS	8MP IR Fixed focal Dome WizSense Network Camera, PAL		
	DH-IPC-HDBW3841EN-AS	8MP IR Fixed focal Dome WizSense Network Camera, NTSC		
	DH-IPC-HDBW3841EP-S	8MP IR Fixed focal Dome WizSense Network Camera, PAL		
	DH-IPC-HDBW3841EN-S	8MP IR Fixed focal Dome WizSense Network Camera, NTSC		

523 g (1.2 lb)

Gross Weight

8MP Camera	IPC-HDBW3841EP-AS	8MP IR Fixed focal Dome WizSense Network Camera, PAL	
	IPC-HDBW3841EN-AS	8MP IR Fixed focal Dome WizSense Network Camera, NTSC	
	IPC-HDBW3841EP-S	8MP IR Fixed focal Dome WizSense Network Camera, PAL	
	IPC-HDBW3841EN-S	8MP IR Fixed focal Dome WizSense Network Camera, NTSC	
	PFA136	Junction Box	
	PFA200W	Rain Shade	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	
Accessories	PFA106	Mount Adapter	
(optional)	PFB220C	Celling 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	

Accessories

Optional:







PFA200W Rain Shade



PFB203W Wall Mount



PFA152-E Pole Mount



PFA106 Mount Adapter



PFB220C Celling 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

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Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA136	PFA136+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount			
PFA106+PFB220C			

Dimensions (mm[inch])



