

# DH-IPC-HDBW3241E-AS

2MP 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.

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080)@30 fps
- · H.265 codec, high compression rate, low bit rate
- · Built-in IR LED, max. IR distance: 50 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 abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Alarm: In, out; Audio: In, out; Supports max. 256 G Micro SD card
- 12V DC/POE power supply
- IP67, IK10 protection
- SMD Plus













# Starlight

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.

# **Cyber Security**

Dahua 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 work 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 Specification					Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF	
Camera							Resolution	(352 × 288/352 × 240)
Image Sensor		1/2.8" 2Megapixel progressive CMOS					Bit Rate Control	CBR/VBR
Max. Resolution		1920 (H) ×1080 (V)					Video Bit Rate	H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps
ROM		128 MB					Day/Night	Auto(ICR)/Color/B/W
RAM		256 MB					BLC	Yes
Scanning System	Scanning System		Progressive				HLC	Yes
Electronic Shutte	er Speed	Auto/Manual 1/3 s-1/100000 s					WDR	120 dB
Min. Illuminatio	Min. Illumination		0.002 Lux@F1.6 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)				White Balance Gain Control	Auto/natural/street lamp/outdoor/manual/regional  Auto/Manual
S/N Ratio	S/N Ratio		> 56 dB				Noise Reduction	3D DNR
Illumination Dist	tance	50 m (164.0 ft)						
Illuminator On/0	Off Control						Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator Num		3 (IR LED)					Region of Interest(RoI)	Yes (4 areas)
Pan/Tilt/Rotatio			· Tilt· 0°_65°· 1	Rotation: 0°-35	: E°		Smart Illumination	Yes
	ii naiige	Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°					Image Rotation	0°/90°/180°/270° ( 90°/270° with 2MP and lower.)
Lens Type	Lens Type		Fixed-focal				Mirror	Yes
Mount Type			M12				Privacy Masking	4 areas
Focal Length							Menu OSD	Support Chinese, English, Brazillian Portuguese and more
		2.8 mm; 3.6 mm; 6 mm					Audio	
Max. Aperture		F1.6  2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126°					Audio Compression	G.711a; G.711Mu; G726
Field of View		3.6 mm: Hori	zontal:87°; ver	tical: 46°; diag	onal: 104°		Alarm	
		6 mm: Horizontal:54°; vertical: 29°; diagonal: 63°						No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection;
	Iris Type  Close Focus Distance		2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft) 6 mm: 2.5 m (8.2 ft)				Alarm Event	IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD
	Lens	Detect	Observe	Recognize	Identify		Network	
	2.8mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)		Network	RJ-45 (10/100 Base-T)
DORI Distance	3.6mm	55.2 m	22.1 m	11.0 m	5.5 m		SDK and API	Yes
	6mm	(181.1 ft) 82.8 m (271.7 ft)	(72.5 ft) 33.1 m (108.6 ft)	(36.1 ft) 16.6 m (54.5 ft)	(18.0 ft) 8.3 m (27.2 ft)		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPOE; SNMP; SSL/TLS; Bonjour
Professional	Intellige		(108.0 11)	(34.510)	(27.211)			
		Tripwire; intrusion (Recognition of human and vehicle)					Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509
Intelligent Searc	Perimeter Protection  Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				Cyber Security	certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
		videos					Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone;
Video							Scene Self-adaptation (SSA)	Yes
Video Compression		$\mbox{H.265; H.264; H.264H; H.264B; MJPEG}$ (only supported by sub stream)					User/Host	20 (Total bandwidth: 64 M)
Smart Codec		Smart H.265+/ Smart H.264+					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
			Main stream (1920 × 1080@1–25/30 fps)				Browser	IE: IE8, IE9, IE11, Chrome, Firefox, Safari
Video Frame Ra	te	sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)					Management Software	Smart PSS, DSS, DMSS
Stream Capability		3 streams					Stream Type	Unicast and Multicast

wiz sense	DH-IPC-HDBW3241E-AS		
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)		
Audio Output	1-channel (RCA port)		
Alarm Input	1 channel in: 5mA 3V–5V DC		
Alarm Output	1 channel out: 300mA 12V DC		
Power			
Power Supply	12V DC/PoE (802.3af)		
Power Consumption	<6.9W		
Environment			
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than 95%		
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	Part Number	Description			
	DH-IPC-HDBW3241EN-AS	2MP IR Fixed focal Dome WizSense Network Camera,NTSC			
	PFA136	Junction Box			
	PFA200W	Rain Shade			
	PFB203W	Wall Mount			
	PFA152-E	Pole Mount			
	PFA106	Mount Adapter			
Accessories (optional)	PFB220C Celling Mount	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			

523 g (1.2 lb)

Gross Weight

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# Accessories

# Optional:



PFA136 Junction Box



PFA200W Rain Shade



PFB203W Wall Mount



PFA152-E Pole Mount



PFA106 Mount Adapter



PFB220C Ceiling 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

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA136	PFA136+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount	1		
PFA106+PFB220C			

