

DH-IPC-HDBW3441E-AS

4MP IR Fixed focal Dome WizSense Network Camera





Launched by Dahua 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, 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.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520)@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.

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



Stream Capability

3 streams

Technical Sp	ecificatio	on						4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704	
Camera							Resolution	× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Image Sensor		1/3" 4Megapixel progressive CMOS					Bit Rate Control	CBR/VBR	
Max. Resolution		2688 (H) ×1520 (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		512 MB					BLC	Yes	
Scanning Systen	Scanning System		Progressive				HLC	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					WDR	120 dB	
Min. Illuminatio	n	0.005 Lux@F1.6						Auto/natural/street lamp/outdoor/manual/regional	
S/N Ratio		> 56 dB					White Balance	custom	
Illumination Dist	tance	50 m (164.0 ft)					Gain Control	Auto/Manual	
Illuminator On/0	Off Control	Auto/Manual					Noise Reduction	3D DNR	
Illuminator Num	nber	3 (IR LED)					Motion Detection	OFF/ON (4 areas, rectangular)	
Pan/Tilt/Rotatio	n Range	Pan: 0°–355°	; Tilt: 0°–65°; F	Rotation: 0°–35	5°		Region of Interest(RoI)	Yes (4 areas)	
Lens	o .						Smart Illumination	Yes	
Lens Type			Fixed-focal				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)	
Mount Type		M12					Mirror	Yes	
Focal Length		2.8 mm; 3.6 mm; 6 mm					Privacy Masking	4 areas	
Max. Aperture		F1.6					Audio		
Field of View		2.8 mm: Horizontal:103°; vertical: 55°; diagonal: 122° 3.6 mm: Horizontal:84°; vertical: 45°; diagonal: 100°					Audio Compression	G.711a; G.711Mu; G726; AAC	
		6 mm: Horizontal:52°; vertical: 28°; diagonal: 61°					Alarm		
Iris Type Close Focus Distance		Fixed 2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.3 ft) 6 mm: 3.2 m (10.5 ft)					Alarm Event	No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire;	
	Lens	Detect	Observe	Recognize	Identify			intrusion; SMD	
	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.8 ft)	5.6 m (18.4 ft)		Network		
DORI Distance	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.3 ft)		Network	RJ-45 (10/100 Base-T)	
	6mm	120.0 m	48.0 m	24.0 m	12.0 m		SDK and API	Yes	
Professional		(393.7 ft) (157.5 ft) (78.7 ft) (39.4 ft)				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;PPP0E;802.1x;SNMP		
Perimeter Prote	ction	Tripwire; intrusion (Recognition of human and vehicle)					Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec	
Intelligent Searc	:h	0	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				Scene Self-adaptation	Yes	
or grant	intelligent Search		videos				User/Host	20 (Total bandwidth: 64 M)	
Video							Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)						Cloud; NAS IE: IE8, IE9, IE11	
Smart Codec		Smart H.265+/ Smart H.264+					Browser	Chrome Firefox	
Video Frame Rate		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps)					Management Software	Smart PSS, DSS, DMSS	
		third stream (1280 × 720@1–25/30 fps)				Mobile Phone	IOS; Android		

Certification

Wiz Sense | DH-IPC-HDBW3441E-AS

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
	0L/C0L. 0L00930-1 CAN/C3A C22.2 N0.00930-1-07

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	<7.3W

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)
Gross Weight	523 g (1.2 lb)

Ordering Information Part Number Description Type 4MP IR Fixed focal Dome WizSense DH-IPC-HDBW3441EP-AS Network Camera, PAL 4MP Camera 4MP IR Fixed focal Dome WizSense DH-IPC-HDBW3441EN-AS Network Camera, NTSC PFA136 Junction Box PFA200W Rain Shade PFB203W Wall Mount PFA152-E Pole Mount PFA106 Mount Adapter Accessories PFB220C Celling Mount (optional) PFM321D DC12V1A Power Adapter Single-port Long Reach Ethernet LR1002-1ET/1EC Over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

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			
PFA106+PFB220C			

Dimensions (mm[inch])



