

DH-IPC-HDBW3441E-S

4MP IR Fixed focal Dome WizSense Network Camera



Wiz Sense

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.

- 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, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- 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.



Wiz Sense | DH-IPC-HDBW3441E-S

Technical Specification

Video Compression

Video Frame Rate

Stream Capability

Smart Codec

Camera					
Image Sensor		1/3" 4Megap	ixel progressive	e CMOS	
Max. Resolution		2688 (H) ×15	20 (V)		
ROM		128 MB			
RAM		512 MB			
Scanning System		Progressive			
Electronic Shutte	er Speed	Auto/Manual	1/3 s-1/1000	00 s	
Min. Illumination	1	0.005 Lux@F	1.6		
S/N Ratio		> 56 dB			
Illumination Dist	ance	50 m (164.0 f	ft)		
Illuminator On/O	off Control	Auto/Manual			
Illuminator Numl	ber	3 (IR LED)			
Pan/Tilt/Rotation	n/Tilt/Rotation Range Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°		5°		
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm; 3.6 r	mm; 6 mm		
Max. Aperture		F1.6			
Field of View		3.6 mm: Hori	zontal:84°; ver	rtical: 55°; diag tical: 45° ; diag cal: 28°; diagon	onal: 100°
Iris Type		Fixed			
Close Focus Dista	ance	2.8 mm: 0.9 r 3.6 mm: 1.6 r 6 mm: 3.2 m	m (5.3 ft)		
	Lens	Detect	Observe	Recognize	Identify
	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)
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)
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4ft)
Professional,	Intellige	ent			
Perimeter Protec	tion	Tripwire; intr	usion (Recogni	tion of human a	and vehicle)
Intelligent Search	ı			IVR to perform raction and me	
Video					

H.265; H.264; H.264H; H.264B; MJPEG(only supported

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

by sub stream)

3 streams

Smart H.265+/ Smart H.264+

Main stream (2688 × 1520@1-25/30 fps)

third stream (1280 × 720@1-25/30 fps)

Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest(RoI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 \times 1080 resolution and lower.)
Mirror	Yes
Privacy Masking	4 areas
Alarm	
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; scene changing; intensity change; tripwire; intrusion; SMD
Network	
Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
Protocol	IPv4;IPv6;HTTP;HTTP5;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP; Multicast;ICMP;IGMP;NF5;PPPoE;802.1x;SNMP
Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Scene Self-adaptation	Yes
User/Host	20 (Total bandwidth: 64 M)
Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; 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

4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 ×

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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

Туре	Part Number	Description	
4MP	DH-IPC-HDBW3441EP-S	4MP IR Fixed focal Dome WizSense Network Camera,PAL	
Camera	DH-IPC-HDBW3441EN-S	4MP 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	
	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:

Rev 001.001

	10	а.	60
-	-	in	3
1			2
100	298	-	× .

PFA136 Junction Box



PFA152-E Pole Mount



















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PFA200W

Rain Shade

PFB203W

Wall Mount

PFB220C

Ceiling Mount



PFM321D

DC12V1A Power

Adapter





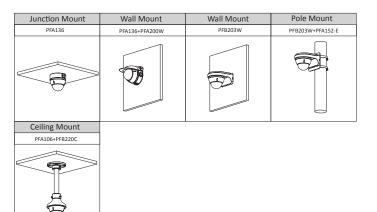
LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFM900-E Integrated Mount tester



PFM114 TLC SD card



Dimensions (mm[inch])

