



DH-IPC-HDBW2541E-S

5MP 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.

System Overview

With advanced deep learning algorithm, Dahua WizSense 2 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

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

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.

- \cdot 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition
- Outputs max. 5 MP (2592 × 1944) @20 fps, and supports 4 MP (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 30 m.
- ROI. SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion and tripwire(the two functions 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.
- · Supports max. 256 G Micro SD card; built in 1-channel MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67 and IK10 protection.
- · SMD Plus.













Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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 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% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical	Specification	on						5M (2592 × 1944); 4M (2688 × 1520); 3M (2304 × 1296);
Camera						R	Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/2.7" CMOS				В	it Rate Control	CBR/VBR
Max. Resolution		2592 (H) × 1944 (V)						H.264: 3 kbps–8192 kbps
ROM		128 MB				V	ideo Bit Rate	H.265: 3 kbps-8192 kbps
RAM		512 MB				D	ay/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive				В	LC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Н	LC	Yes
Min. Illumination		0.005 lux@F1.6(Color,30 IRE) 0.0005 lux@F1.6(B/W,30 IRE) 0 lux (Illuminator on)				S	VDR cene Self-adaptation SSA)	120 dB Yes
S/N Ratio		>56 dB					Vhite Balance	Auto; natural; street lamp; outdoor; manual; regional
Illumination	Distance	30 m (98.43 ft) (IR LED)						custom
Illuminator C	On/Off Control	Auto;Manual					ain Control	Auto;Manual
Illuminator N	Number	3 (IR LED)					oise Reduction	3D DNR
		Pan: 0°-355°				N	1otion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rota	ation Range	Tilt: 0°-65° Rotation: 0°-355°				R	egion of Interest (RoI)	Yes (4 areas)
Lens						S	mart Illumination	Yes
Lens Type		Fixed-focal				Ir	mage Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Lens Mount		M12				N	1irror	Yes
Focal Length		2.8 mm; 3.6 mm				Р	rivacy Masking	4 areas
Max. Apertu	ire	F1.6				Д	udio	
Field of View	1		7°; V: 71° ; D: 1 0°; V: 57° ; D: 1			В	uilt-in MIC	Yes
Iris Control		Fixed				А	udio Compression	G.711a; G.711Mu; PCM; G.726
Close Focus Distance		2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (5.58 ft)				Α	larm	
DORI	Lens 2.8 mm	Detect 63.6 m	Observe 25.4 m	Recognize	Identify 6.4 m	А	larm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; SMD; security exception
Distance		(208.66 ft) 85.4 m	(83.33 ft) 34.2 m	(41.67 ft) 17.1 m	(21.00 ft) 8.5 m	N	letwork	Security exception
	3.6 mm	(280.18 ft)	(112.20 ft)	(56.10 ft)	(27.89 ft)		letwork Port	RJ-45 (10/100 Base-T)
Intelligen	ce						DK and API	Yes
IVS (Perimet	er Protection)	Tripwire; intrusion(the two functions support the classification and accurate detection of vehicle and human)				3	SDK and API	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				С	Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Video		H.265; H.264; H.264H; H.264B; MJPEG (Only supported				N	etwork Protocol	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
Video Compression		by the sub stream)				Ir	nteroperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone;
Smart Codec		Smart H.265+; Smart H.264+						Genetec
Video Frame Rate		Main stream: 2592 × 1944@(1–20 fps)/2688 × 1520@ (1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30					lser/Host torage	20 (Total bandwidth: 64 M) FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Stroam Canability		fps)				rowser	IE Chrome	
Stream Capability		2 streams				В	rowser	Chrome Firefox

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	Management Software	Smart PSS; DSS; DMSS			
	Mobile Client	iOS; Android			
	Certification				
	Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B			
	Power				
	Power Supply	12 VDC/PoE (802.3af)			
	Power Consumption	Basic: 3 W (12 VDC); 3.5 W (PoE) Max(WDR + IR intensity + Intelligence on): 6 W (12 VE 7.2 W (PoE)			

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Protection	IP67; IK10		

Structure

Casing	Metal
Product Dimensions	81.0 mm × Φ109.9 mm (3.19" × Φ4.33")
Net Weight	351g (0.8 lb)
Gross Weight	495g (1.1 lb)

Ordering Information					
Туре	Model	Description			
5MP Camera	DH-IPC-HDBW2541E-S- 0280B	5MP IR Fixed-focal Dome WizSense Network Camera			
Sivir Camera	DH-IPC-HDBW2541E-S- 0360B	5MP IR Fixed-focal Dome WizSense Network Camera			
	PFA136	Junction Box			
	PFB203W	Wall Mount Bracket			
	PFA200W	Rain Shade			
	PFA106	Mount Adapter			
Accessories (Optional)	PFA152-E	Pole Mount Bracket			
	PFB220C	Ceiling Mount Bracket			
	PFM321D	12 VDC 1A Power Adapter			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

Accessories

Optional:







PFA136 Junction Box

PFB203W Wall Mount Bracket

PFA200W Rain Shade



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PFA106 Mount Adapter

PFA152-E Pole Mount Bracket

PFB220C Ceiling Mount Bracket



PFM321D 12V DC 1A

Power Adapter

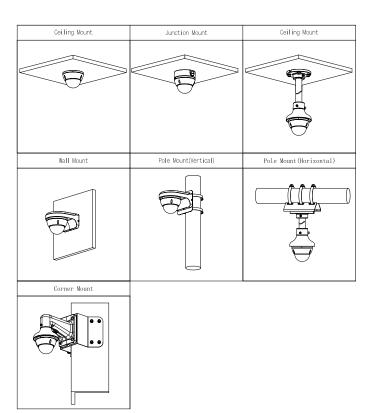


PEM900-E



PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card





Dimensions (mm[inch])

