

DH-IPC-HDBW5442R-S

4MP IR Fixed-focal Dome WizMind Network Camera





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis.

Functions

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

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.

People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/daily reports to meet your requirements.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 50 m.
- ROI, SVC, SMART H.264 +/H.265+, AI 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, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); abandoned object, missing object, loitering detection, people gathering, parking detection, heat map and face detection.
- 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.
- 12 VDC/PoE power supply, easy for installation.
- IP67 and IK10 protection.
- SMD 3.0.











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.

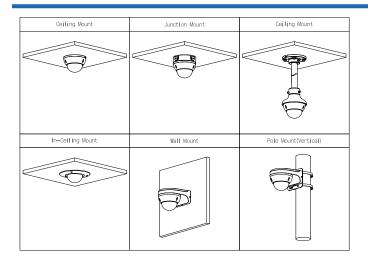
IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

SMD 3.0

Technical Specification								Face detection; track; snapshot; snapshot optimization;	
Camera							Face Detection	optimal face snapshot upload; face enhancement; face exposure; face snapshot set as face, one-inch photo	
Image Sensor		1/1.8" CMOS						or custom; 3 snapshot strategies (real-time snapshot, optimization snapshot and quality first); face angle filter; optimization time setting	
Max. Resolution		2688 (H) × 1520 (V)						Tripwire people counting, generating and exporting report (day/month); people counting in area; queue management; 4 rules can be set for tripwire, people counting in area and queue management. Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	
ROM		128 MB					People Counting		
RAM		512 MB							
Scanning System		Progressive					Smart Search		
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video		
Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Video Compression	$\ensuremath{H.265}; \ensuremath{H.264}; \ensuremath{H.264B}; \ensuremath{MJPEG}$ (Only supported by the sub stream)	
S/N Ratio	S/N Ratio		>56 dB				Smart Codec	Smart H.265+; Smart H.264+	
Illumination Distance		50 m (164.04 ft) (IR)					Al Coding	AI H.265; AI H.264	
Illuminator On/Off Control		Auto; manual						Main stream: $2688 \times 1520 (1 \text{ fps}-25/30 \text{ fps}) /1920 \times 1080 (1 \text{ fps}-50/60 \text{ fps})$ Sub stream: $D1@(1-25/30 \text{ fps})$ Third stream: $1080p@(1-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Illuminator N	Illuminator Number		1 (IR LED)				Video Frame Rate		
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°							
Lens		Notation: 0 -	333				Stream Capability	3 streams	
Lens Type		Fixed-focal					Resolution	4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352	
Lens Mount		M16					Bit Rate Control	× 240) CBR/VBR	
Focal Length	Focal Length		2.8 mm; 3.6 mm; 6 mm				Video Bit Rate	H.264: 3 kbps–20480 kbps	
Max. Apertu	Max. Aperture		F1.6				Day/Night	H.265: 3 kbps–20480 kbps Auto(ICR)/Color/B/W	
Field of View		2.8 mm: Horizontal: 113°; Vertical: 60°; Diagonal: 134° 3.6 mm: Horizontal: 89°; Vertical: 48°; Diagonal: 104°					BLC	Yes	
Iris Control		6 mm: Horizontal: 56°; Vertical: 31°; Diagonal: 65° Fixed					HLC	Yes	
	ins control		2.8 mm: 1.3 m (4.27 ft)				WDR	140 dB	
Close Focus	Close Focus Distance		3.6 mm: 1.9 m (6.23 ft) 6mm: 3.8 m (12.47 ft)				Scene Self-adaptation (SSA)	Yes	
	Lens	Detect	Observe	Recognize	Identify		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
DORI	2.8mm	57.9 m (189.96 ft)	23.2 m (76.12 ft)	11.6 m (38.06 ft)	5.8 m (19.03 ft)		Gain Control	Auto; manual	
Distance	3.6mm	71.7 m (235.34 ft)	28.7 m (94.16 ft)	14.3 m (46.92 ft)	7.2 m (23.62 ft)		Noise Reduction	3D NR	
	Emm	113.1 m	45.2 m	22.6 m	11.3 m		Motion Detection	OFF/ON (4 areas, rectangular)	
	6mm	(371.06 ft)	(148.29 ft)	(74.15 ft)	(37.07 ft)		Region of Interest (RoI)	Yes (4 areas)	
Smart Eve	ent						Defog	Yes	
IVS		Abandoned object; missing object					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M resolution and lower)	
Heat Map		Yes					Mirror	Yes	
Professional, intellige							Privacy Masking	8 areas	
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection					Alarm		

Less false alarm, longer detection distance

	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion	Ordering Information					
Alarm Event	detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering	Туре	Model	Description			
	detection; people gathering; parking detection; scene changing; face detection; SMD; people counting in area; stay detection; people counting; security exception	4MP Camera	DH-IPC-HDBW5442RP-S	4MP IR Fixed-focal Dome WizMind Network Camera, PAL			
Network			DH-IPC-HDBW5442RN-S	4MP IR Fixed-focal Dome WizMind Network Camera, NTSC			
Network Port	RJ-45 (10/100 Base-T)		PFB203W	Wall Mount Bracket			
SDK and API	Yes		PFA152-E	Pole Mount Bracket			
Cubar Saguritu	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509	Accessories	PFB220C	Ceiling Mount Bracket			
Cyber Security	certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade		PFA151	Corner Mount Bracket			
	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP;		PFA137	Junction Box			
Network Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP		PFA106	Mount Adapter			
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P		PFM321D	12 VDC 1A Power Adapter			
User/Host	20 (Total bandwidth: 80 M)		PFM900-E	Integrated Mount Tester			
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS		TF-P100/256G	MicroSD Memory Card			
Storage	IE: IE8 and later						
Browser	rowser Chrome Firefox		Accessories				
Management Software	Smart PSS;DSS;DMSS	Optional:					
Mobile Client	iOS; Android			7			
Certification							
Certifications	CE-LVD: EN60950-1 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	PFB203W Wall Mour Bracket	117/132 L	PFB220C Ceiling Mount Bracket			
Power		4		-			
Power Supply	12 VDC/PoE (802.3af)						
Power Consumption	Basic: 2.4 W (12 VDC); 2.8 W (PoE) Max. (H.265 + three streams + intelligence on + IR on): 5.4 W (12 VDC); 5.8 W (PoE)	PFA151	PFA137	PFA106 Mount Adapter			
Environment		Corner Mou Bracket	ant Janetion box	Wountradpeci			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)						
Operating Humidity	≤95%	£	alhun	College			
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		113	256 _{GB} UA2			
Protection	IP67; IK10	PFM3210	D PFM900-E	TF-P100/256G			
Structure		12 VDC 1A Po Adapter	ower Integrated	MicroSD			
Casing	Metal + plastic	, taapter	sunt rester	c.i., caid			
Product Dimensions	Φ122 mm × 88.9 mm (4.80" × Φ3.50")						
Net Weight	470 g (1.03 lb)						
Gross Weight	630 g (1.39 lb)						



Dimensions (mm[inch])

