

DH-IPC-HDW4541T-ZS

5MP IR Vari-focal Eyeball 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

Powered by its advanced deep learning algorithms, Dahua WizMind 4 Series cameras are ahead of their time advancing functions such as perimeter protection, smart motion detection and face detection. With its Starlight sensors and large aperture lenses, cameras in this series deliver excellent image quality even in environments with low illuminance. This series is IP67-rated and IK10-rated (depending on the model) giving you the confidence and precision you are looking for in a camera.

Functions

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.

SMD 3.0

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.

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) are largely reduced.

- 5MP 1/2.7" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 5MP (2592 × 1944) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate.
- · Built-in IR LED, max. IR distance: 40 m
- ROI, SMART H.264 +/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Supports the AFSA (Anti-flicker Self-adaption) function, which automatically eliminates flicker.
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human); face detection.
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · max. 256 G Micro SD card. built-in Mic
- 12 VDC/PoE power supply, easy for installation.
- IP67, protection
- SMD 3.0













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.

Protection (IP67, 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.

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.

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 comprising the device.

Technical Specification						AI Coding	AI H.265 AI H.264	
Camera							Main stream: 2592 × 1944 @ (1–25/30) fps	
Image Sensor		1/2.7" CMOS				Video Frame Rate	Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps)	
Max. Resolution		2592 (H) × 1944 (V)					Sub stream 2: 1920 × 1080 @ (1–25/30 fps) Sub stream 3: 1280 × 720 @ (1–25/30 fps)	
ROM		128 MB				Stream Capability	4 streams	
RAM		1 GB				Resolution	5M (2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA	
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Bit Rate Control	(640 × 480) CBR/VBR	
Min. Illumination		0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)				Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps	
S/N Ratio		>56 dB				Day/Night	Auto (ICR)/Color/B/W	
Illumination Distance		40 m (131.23 ft)				BLC	Yes	
Illuminator On/Off Control		Auto/Manual				HLC	Yes	
Illuminator N	umber	2 (IR LED)				WDR	120 dB	
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–78°; Rotation: 0°–360°				Scene Self-adaptation (SSA)	Yes	
Lens						White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Lens Type		Motorized vari-focal				Gain Control	Auto	
Lens Mount		ф14				Noise Reduction	3D NR	
Focal Length		2.7 mm-13.5 mm				Motion Detection	OFF/ON (4 areas, rectangular)	
Max. Aperture		F1.5				Image Stabilization	Electronic Image Stabilization (EIS)	
Field of View		Horizontal: 99°–28° Vertical: 71°–21°				Region of Interest (RoI)	Yes (4 areas)	
Iris Control		Diagonal: 134°–35° Fixed				Smart Illumination	Yes	
Close Focus D	Nistance	0.8 m (2.62 ft	\			Defog	Yes	
ciose i ocus b	Lens	Detect	Observe	Recognize	Identify	Image Rotation	0°/90°/180°/270° (support 90°/270° with 2688 × 1520 resolution and lower)	
DORI	W	64.0 m	25.6 m	12.8 m	6.4 m	Mirror	Yes	
Distance		(209.97 ft) 210.0 m	(83.98 ft) 84.0 m	(41.99 ft) 42.0 m	(21.00 ft) 21.0 m	Privacy Masking	4 areas	
	Т	(688.98 ft) (275.59 ft) (137.80 ft) (68.90 ft)				Audio	Audio	
Intelligenc	e					Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
IVS (Perimete	er Protection)	Tripwire, intrusion (support the classification and accurate detection of vehicle and human)				Alarm		
SMD 3.0		Less false alarm, longer detection distance					No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion	
Fore Detection		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face snapshot set as face or one-inch photo;				Alarm Event	detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; defocus detection; face detection; SMD; security exception	
Face Detection		3 snapshot strategies (real-time snapshot, optimization snapshot, and quality priority); face angle filter;				Network		
		optimization time setting Work together with Smart NVR to perform refine				Network Port	RJ-45 (10/100 Base-T)	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				SDK and API	Yes	
Video						Network 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		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Video encryption; Firmware encryption; Configuration	
Smart Codec		Smart H.265+ Smart H.264+				Cyber Security	encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade	

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Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
User/Host	20 (Total bandwidth: 64 M)	
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Browser	IE: IE11 Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS	
Mobile Client	iOS; Android	

Certification

	CE-LVD: EN62368-1;
	CE-EMC: Electromagnetic Compatibility Directive
Certifications	2014/30/EU;
	FCC:47 CFR FCC Part 15, Subpart B;
	UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14;

Power

Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 3.3 W (12 VDC); 4.6 W (PoE) Max. (WDR + IR intensity + Intelligence): 6.8 W (12 VDC); 8.9 W (PoE)		

Environment

Operating Temperature	$-30~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–22 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}) / \text{Less than 95\% RH}$		
Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)		
Protection	IP67		

Structure

Casing	Metal
Product Dimensions	108.3 mm × Φ122 mm (4.26" × Φ4.80")
Net Weight	715 g (1.58 lb)
	,
Gross Weight	915 g (2.02 lb)

Ordering Information			
Туре	Model	Description	
5MP Camera	DH-IPC-HDW4541TP- ZS-27135	5MP IR Vari-focal Eyeball WizMind Network Camera	
	PFA137	Junction Box Bracket	
	PFA109	Mount Adapter	
	PFB220C	Ceiling Mount Bracket	
	PFB205W	Wall Mount	
Accessories (Optional)	PFA152-E	Pole Mount	
(Орионаі)	PFM321D	12 VDC 1 A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender	
	PFM900-E	Integrated Mount Tester	
	TF-P100	TLC SD Card	

Accessories

Optional:



PFA137 Junction Box Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Brack



PFM321D 12 VDC 1 A Power Adapter





Wall Mount

PFB205W

PFA152-E Pole Mount



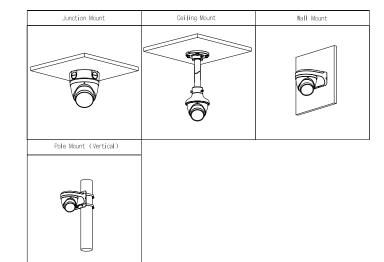
LR1002-1ET/1EC Single-port Long Reach Ethernet Over Coax Extender



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card



Dimensions (mm[inch])

