

DH-IPC-HFW4841T-ZAS

8 MP IR Vari-focal Bullet 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 Al 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.

- 8 MP 1/2.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 8 MP (3840 × 2160) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- · Built-in IR LED, max. IR distance: 60 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.
- 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.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; max. 512 G Micro SD card; built-in Mic
- 12 VDC/PoE power supply facilitates installation.
- IP67, IK10 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				Smart Codec	Smart H.265+ Smart H.264+		
Camera					Al Coding	AI H.265 AI H.264	
Image Sensor		1/2.8" CMOS			Video Frame Rate	Main stream: 3840×2160 @ $(1-25/30)$ fps Sub stream 1: 704×576 @ $(1-25$ fps)/ 704×480 @ $(1-30$ fps) Sub stream 2: 1920×1080 @ $(1-25/30$ fps) Sub stream 3: 1280×720 @ $(1-25/30$ fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected	
Max. Resolution		3840 (H) × 2160 (V)					
ROM		128 MB					
RAM		1 GB					
Scanning System		Progressive				Change Conchilibre	to the total encoding capacity
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Stream Capability	4 streams 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×
Min. Illumination		0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)				Resolution	1728/2592 × 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 (640
S/N Ratio		>56 dB					× 480)
Illumination	Distance	Up to 60 m (197 ft)				Bit Rate Control	CBR/VBR
Illuminator (On/Off Control	Auto/Manual				Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
Illuminator N	Illuminator Number		4 (IR LED)			Day/Night	Auto (ICR)/Color/B/W
Pan/Tilt/Rotation Range		Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°)°	BLC	Yes	
Lens					HLC	Yes	
Lens Type		Motorized vari-focal				WDR	120 dB
Lens Mount		ф14				Scene Self-adaptation (SSA)	Yes
Focal Length		2.7 mm-13.5 mm				White Balance	Auto; natural; street lamp; outdoor; manual; regional
Max. Aperture		F1.5				Gain Control	custom
Field of View	v	Horizontal: 109°–30° Vertical: 56° –17°				Noise Reduction	3D NR
		Diagonal: 131° –35°				Motion Detection	OFF/ON (4 areas, rectangular)
Iris Control		Fixed				Image Stabilization	Electronic Image Stabilization (EIS)
Close Focus	Distance	0.8 m (2.6 ft)				Region of Interest (RoI)	Yes (4 areas)
	Lens	Detect	Observe	Recognize	Identify	Smart Illumination	Yes
	W	88.3 m (289.70 ft)	35.3 m (115.81 ft)	17.7 m (58.07 ft)	8.8 m (28.87 ft)	Defog	Yes
DORI	Т	289.7 m (950.46 ft)	115.7 m (379.59 ft)	57.9m (189.96 ft)	29.0 m (95.14 ft)	Image Rotation	0°/90°/180°/270° (support 90°/270° with 2688 × 1520
Distance		t, Observe, Recognize, Identify) is a standard system			Mirror	resolution and lower)	
	video to distin	for defining the ability of a person viewing the guish persons or objects within a covered area. in this table do not reflect intelligent function intelligent function distances, refer to installation			ea.	Privacy Masking	Yes
	distances. For					Audio	4 areas
		sioning manual/project design tool.			Built-in MIC	Yes	
Intelligence		Tripwire, intrusion (support the classification and			on and		
IVS (Perimeter Protection)		accurate detection of vehicle and human)			on and	Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
SMD 3.0		Less false alarm, longer detection distance				Alarm	No SD card; SD card full; SD card error; network
Face Detection		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face snapshot set as face or one-inch photo; 3 snapshot strategies (real-time snapshot, optimization snapshot, and quality priority); face angle filter; optimization time setting			ement; face -inch photo; optimization	Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; defocus detection; external alarm; face detection; SMD; security exception
Video						Network	
Video Comp			H.265; H.264; H.264H; H.264B; MJPEG (only supported		ly supported	Network Port	RJ-45 (10/100 Base-T)
Video Compression		by the sub stream)			SDK and API	Yes	

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; P2P		
Cyber Security	Video encryption; Firmware encryption; Configuration 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		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI		
User/Host	20 (Total bandwidth: 64 M)		
Storage	FTP; SFTP; Micro SD card (support max. 512 G); NAS		
Browser	IE: IE11 Chrome Firefox		
Management Software	SmartPSS Lite; 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

Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5 mA 3–5 VDC
Alarm Output	1 channel out: 300 mA 12 VDC

Power

Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 4 W (12 VDC); 4.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 9.2 W (12 VDC); 10.5 W (PoE)		

Environment

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

Structure

Casing	Metal
Product Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 2.99") (L × W × H)
Net Weight	820 g (1.81 lb)
Gross Weight	1090 g (2.40 lb)

Ordering Information			
Туре	Model	Description	
8 MP Camera	DH-IPC-HFW4841TP- ZAS-27135	8 MP IR Vari-focal Bullet WizMind Network Camera	
	PFA130-E	Junction Box	
	PFA135	Junction Box	
Accessories	PFA152-E	Pole Mount	
(optional)	PFM321D	12 VDC 1 A Power Adapter	
	PFM900-E	Integrated Mount Tester	
	TF-P100	TLC SD Card	

Accessories

Optional:







PFM321D 12 VDC 1 A Power Adapter



PFA135 Junction Box



PFM900-E Integrated Mount Tester



PFA152-E Pole Mount



TF-P100 TLC SD Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])



