

DH-IPC-HFW3441E-AS

4 MP IR Fixed-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 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.

- •4 MP 1/2.7"Progressive Scan CMOS, excellent low luminance performance and high definition of images
- Outputs max. 4 MP (2688 × 1520) @ 25/30 fps
- •H.265 codec, high compression rate, ultra-low bit rate
- ·Built-in IR LED, max. IR distance: 50m
- ROI, 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
- 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. 256 G Micro SD card. built-in Mic
- •12 VDC/PoE power supply facilitates installation
- •IP67, IK10 (optional) 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 ±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+		
Camera							Smart H.264+ AI H.265	
Image Sensor		1/2.7" Progressive Scan CMOS				Al Coding	AI H.264	
Max. Resolution		2688 (H) × 1520 (V)					Video Frame Rate	Main stream: 2688 × 1520 @ (1–25/30) fps Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps)
ROM		128 MB						Sub stream 2: 1920 × 1080 @ (1–25/30 fps) Sub stream 3: 1280 × 720 @ (1–25/30 fps)
RAM		512 MB					Stream Capability	4 streams
Scanning System		Progressive					Resolution	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 × 480)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)					Bit Rate Control	CBR/VBR
S/N Ratio		>56 dB					Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
Illumination	Distance	50 m (164.04 ft) (IR)					Day/Night	Auto (ICR)/Color/B/W
Illuminator (On/Off Control	Auto/Manual				BLC	Yes	
Illuminator N	Number	4 (IR LED)					HLC	Yes
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				WDR	120 dB	
Lens						Scene Self-adaptation (SSA)	Yes	
Lens Type Lens Mount		Fixed-focal M12					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Focal Length		3.6 mm; 6 mm; 8 mm				Gain Control	Auto	
Max. Aperture		F1.4				Noise Reduction	3D NR	
		3.6 mm: Horizontal:84°; vertical: 42°; diagonal: 101°					Motion Detection	OFF/ON (4 areas, rectangular)
Field of View	1	6 mm: Horizontal:52°; vertical: 28°; diagonal: 61° 8 mm: Horizontal:40°; vertical: 23°; diagonal: 46°				Region of Interest (RoI)	Yes (4 areas)	
Iris Control		Fixed				Smart Illumination	Yes	
Close Focus	Distance	3.6 mm: 1.7 m (5.6ft) 6 mm: 3.2 m (10.5 ft) 8 mm: 4.7 m (15.4 ft)					Defog	Yes
	Lens	Detect	Observe	Recognize	Identify		Image Rotation	0°/90°/180°/270° (support 90°/270° with 2688×1520 resolution and lower)
	3.6 mm	85.4 m	34.2 m	17.1 m	8.5 m		Mirror	Yes
DORI Distance		(280.18 ft) 124 m	(112.20 ft) 49.6m	(56.10 ft) 24.8 m	(27.89 ft) 12.4 m		Privacy Masking	4 areas
Distance	6 mm	(406.82 ft)	(162.73 ft)	(81.36 ft)	(40.68 ft)		Audio	
	8 mm	150.4 m (493.44 ft)	60.2 m (197.51 ft)	30.1 m (98.75 ft)	15.0 m (49.21 ft)		Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
Intelligence						Alarm		
IVS (Perimet	er Protection)	Tripwire, intrusion (support the classification and accurate detection of vehicle and human)						No SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, motion
SMD 3.0		Less false alarm, longer detection distance					Alarm Event	detection, video tampering, tripwire, intrusion, scene changing, audio detection, voltage detection, external alarm, face detection, SMD and security exception
		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face					Network	alann, race detection, sivib and security exception
Face Detection		exposure; face snapshot set as face or one-inch photo; 3 snapshot strategies (real-time snapshot, optimization					Network Port	RJ-45 (10/100 Base-T)
		snapshot, and quality priority); face angle filter; optimization time setting					SDK and API	Yes
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				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								
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)						

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; 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		

N62368-1;
lectromagnetic Compatibility Directive
U;
R FCC Part 15, Subpart B;
L62368-1 & 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: 2.8 W (12 VDC); 3.5 W (PoE) Max. (WDR + IR intensity + Intelligence): 7.1 W (12 VDC); 8.3 W (PoE)

Environment

Operating Temperature	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ 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 (9.6" × 3.1" × 3.0") (L × W × H)
Net Weight	820 g (1.81 lb)
Gross Weight	1090 g (2.40 lb)

Ordering Information				
Туре	Model	Description		
	DH-IPC-HFW3441E-AS- 0360B	4 MP IR Fixed-focal Bullet WizMind Network Camera, PAL		
4 MP Camera	DH-IPC-HFW3441E-AS- 0600B	4 MP IR Fixed-focal Bullet WizMind Network Camera, PAL		
	DH-IPC-HFW3441EP-AS- 0800B	4 MP IR Fixed-focal Bullet WizMind Network Camera, PAL		
	PFA130-E	Junction Box		
	PFA135	Junction Box		
	PFA152-E	Pole Mount		
Accessories	PFM321D	12 VDC 1 A Power Adapter		
(optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender		
	PFM900-E	Integrated Mount Tester		
	TF-P100	TLC SD Card		

Accessories

Optional:



PFA130-E Junction Box



PFM321D 12 VDC 1 A Power Adapter



PFA135 Junction Box



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



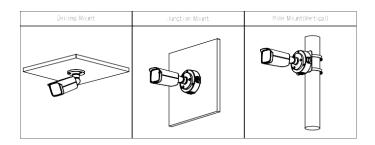
PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card



Dimensions (mm[inch])

