



DH-IPC-HBW6815A-E-IS

2 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.

- 2 MP 1/2.7" CMOS image sensor, excellent low luminance performance and high definition of images
- Outputs max. 2 MP (1920 × 1080) @50/60 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max. IR distance: 50 m
- 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
- · 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 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							Al Coding	AI H.265 AI H.264
Camera								Al H.264 Main stream: 1920 × 1080 @ (1–50/60) fps
Image Sensor		1/2.7" CMOS						Sub stream 1: 704 × 576 @ (1–50 fps)/704 × 480 @ (1–60 fps) Sub stream 2: 1920 × 1080 @ (1–50/60 fps) Sub stream 3: 1280 × 720 @ (1–50/60 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
Max. Resolution		1920 (H) × 1080 (V)					Video Frame Rate	
ROM		128 MB						
RAM		512 MB					Stream Capability	4 streams
Scanning System		Progressive						1080p (1920 × 1080); 1.3M(1280 × 960); 720p (1280
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Resolution	× 720); D1 (704 × 576/704×480); CIF (352 × 288/352 × 240); VGA (640 × 480)
Min. Illumination		0.002 lux@F1.4 (Color, 30 IRE) 0.0002 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 ft)					Day/Night	Auto (ICR)/Color/B/W
Illuminator On/Off Control		Auto/Manual					BLC	Yes
Illuminator N		1 (IR LED)					HLC	Yes
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°					WDR	120 dB
Lens		1.1 2.355 , mar 55 , maddin 6 355					Scene Self-adaptation (SSA)	Yes
Lens Type		Fixed-focal					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Mount		M12					Gain Control	Auto
Focal Length		2.8 mm; 3.6 mm; 6 mm					Noise Reduction	3D NR
Max. Aperture		F1.6					Motion Detection	OFF/ON (4 areas, rectangular)
Field of View		2.8 mm: Horizontal:112°; vertical: 60°; diagonal: 132° 3.6 mm: Horizontal:88°; vertical: 44°; diagonal: 105° 6 mm: Horizontal:54°; vertical: 30°; diagonal: 63°					Region of Interest (RoI)	Yes (4 areas)
Iris Control		Fixed					Smart Illumination	Yes
Close Focus Distance		2.8 mm: 0.7 m (2.3 ft) 3.6 mm: 1.3 m (4.3 ft) 6 mm: 2.6 m (8.5 ft)					Defog	Yes
	Lens	Detect	Observe	Recognize	Identify		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with 1920×1080 resolution and lower)
	2.8 mm	43.9 m	17.5 m	8.8 m	4.4 m		Mirror	Yes
DORI	2.0 11111	(144.03 ft)	(57.41 ft)	(28.87 ft)	(14.44 ft)		Privacy Masking	4 areas
Distance	3.6 mm	58.9 m (193.24 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)	5.9 m (19.36 ft)		Audio	
	6 mm	85.5 m (280.51 ft)	34.2m (112.20 ft)	17.1 m (56.10 ft)	8.6 m (28.22 ft)		Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
Intelligen	ce						Alarm	
IVS (Perimeter Protection)		Tripwire, intrusion (support the classification and accurate detection of vehicle and human)					Alarm 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, external alarm, face detection, SMD and security exception
SMD 3.0		Less false alarm, longer detection distance						
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					Network	
							Network Port	RJ-45 (10/100 Base-T)
							SDK and API	Yes
Video		H.265; H.264; H.264H; H.264B; MJPEG (only supported					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		by the sub stream)						Marked St. J. 19191 , 1919, JANIDA, FFF OL, SINIVIP
Smart Codec		Smart H.265+ Smart H.264+						

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	32 (3 levels: Adminnistrator, operator and user)				
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					
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 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: 3.8 W (12 VDC); 4.6 W (PoE) Max. (WDR + IR intensity + Intelligence): 5.9 W (12 VDC); 7.2 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	192.7 mm × 70.5 mm × 66.4 mm (7.59" × 2.77" × 2.61") (L × W × H)				
Net Weight	590 g (1.30 lb)				
Gross Weight	780 g (1.72 lb)				

Ordering Information						
Туре	Model	Description				
	DH-IPC-HBW6815A-E-IS	2 MP IR Fixed-focal Bullet WizMind Network Camera				
2 MP Camera	DH-IPC-HBW6815A-E-IS	2 MP IR Fixed-focal Bullet WizMind Network Camera				
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	PFA130-E	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







PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

