

# DH-IPC-HDBW5441F-AS-E2

2 × 4 MP Dual-Directional No-Splicing WizMind Network Camera



## Wiz Mind

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. The series camera supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

#### Functions

#### 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, 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 reports to meet your requirements.

#### **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.

• 4 MP 1/2.7" CMOS image sensor, low luminance, and high definition image.

- Outputs max. 4 MP (2560 × 1440)@25/30 fps.
- Built-in IR LED, and the max. illumination distance is 30 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.
- 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, and parking detection.
- Face detection: Track, snapshot, snapshot optimization, optimal face snapshot upload, face enhancement, and face exposure.
- People counting: Queue management, people counting in area, entered/exited people counting, and generating and exporting report (day/month/year).
- Dual-channel intelligence can be enabled at the same time and independent of each other.
- Supports dual-channel images previewed in the first channel, saving license costs.
- Alarm: 2 in, 2 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built-in MIC.
- 12 VDC/PoE power supply.
- IP67 and IK10.
- 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

# Wiz Mind | DH-IPC-HDBW5441F-AS-E2

### **Technical Specification**

#### Camera

Camera					
Image Sensor		1/2.7" CMOS			
Max. Resolution		2560 (H) × 14	40 (V)		
ROM		128 MB			
RAM		1 GB			
Scanning System	I	Progressive			
Electronic Shutte	er Speed	Auto/Manual	1/3 s-1/100,00	00 s	
Min. Illumination	ı		1.6 (Color,30 IRI F1.6 (B/W,30 IR ator on)	,	
S/N Ratio		> 56 dB			
Illumination Dist	ance	30 m (98.43 f	t) (IR)		
Illuminator On/O	Off Control	Auto			
Illuminator Num	ber	16 (IR LED)			
Pan/Tilt/Rotation	n Range	Pan: 0°–175° Tilt: 0°–65° Rotation: 0°–3	360°		
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 r	nm		
Max. Aperture		F1.6			
Field of View			zontal: 95°; Veri zontal: 78°; Veri		
Iris Control		Fixed			
Close Focus Dista	ance	2.8 mm: 1.1 r 3.6 mm: 1.7 r			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)	6.4 m (21.00 ft)
	3.6 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)
C					

#### Smart Event

IVS	Abandoned object; missing object
Professional, intellige	nt
IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection
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.
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; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting

People Counting	Tripwire people counting and people counting in area; generating and exporting report (day/month/year); queue management; 4 rules can be set for tripwire, people counting in area and queue management
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Video	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
AI Coding	AI H.265; AI H.264
Video Frame Rate	Main stream: 2560 × 1440 @(1–25/30 fps ) sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps) third stream: 1920 × 1080 @ (1–25/30 fps)
Stream Capability	3 streams
Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M(1280×960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 32 kbps–8192 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
Scene Self-adaptation (SSA)	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (Rol)	Yes (4 areas)
Image Stabilization	NA
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270°
Mirror	Yes
Privacy Masking	8 areas
Audio	
Built-in MIC	Yes
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723

Alarm

Alarm Event

Protection

	Structure			
No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion	Casing		Metal	
detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering	Product Dimensio	ons	66.2 mm >	< Φ122.0 mm (2.61" × Φ4.80")
detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external	Net Weight		0.52 kg (1.	.15 lb)
alarm; face detection; SMD; people counting in area; stay detection; people counting; security exception	Gross Weight		0.67 kg (1.	.48 lb)
RJ-45 (10/100 Base-T)	Ordering Info	ormatio	n	
Yes	Туре	Model		Description

Туре	Model	Description
4MP Camera	DH-IPC- HDBW5441F- AS-E2	2 × 4 MP Dual-Directional No-Splicing WizMind Network Camera
	PFA106	Mount Adapter
	PFB220C	Celling Mount Bracket
	PFB203W	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
Accessories (optional)	PFA137	Junction Box
(optional)	PFM321D	12 VDC 1A Power Adapter
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender
	PFM900-E	Integrated Mount Tester
	PFM114	TLC SD Card

#### Accessories

#### **Optional:**



PFA106

PFA152-E

Pole Mount Bracket

1 44 P 1 44 P

LR1002-1ET/1EC

Single-port Long Reach

Ethernet over Coax

Extender

Mount Adapter

PFB220C Celling Mount Bracket

PFB203W Wall Mount Bracket



PFM321D 12 VDC 1A Power Adapter



PFM114 TLC SD Card

changing; audio detection; voltage detection; external alarm; face detection; SMD; people counting in area; stay detection; people counting; security exception
RJ-45 (10/100 Base-T)
Yes
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
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
ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone
20 (Total bandwidth: 64 M)
FTP; SFTP; Micro SD card (support max. 256 GB); NAS
IE: IE8 and later Chrome Firefox Safari: 12 and later
Smart PSS; DSS; DMSS
iOS; Android
CE-LVD: EN 62368-1; 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
1 channel (RCA port)
1 channel (RCA port)
2 channels in: 5mA 3V–5 VDC
2 channels out: 300mA 12 VDC
12 VDC/PoE
12 VDC/PoE Basic: 3.1 W (12 VDC); 4 W (PoE) Max. (H.265 + IR on + intelligence+ WDR): 6.6 W (12 VDC); 8 W (PoE)
Basic: 3.1 W (12 VDC); 4 W (PoE) Max. (H.265 + IR on + intelligence+ WDR): 6.6 W (12
Basic: 3.1 W (12 VDC); 4 W (PoE) Max. (H.265 + IR on + intelligence+ WDR): 6.6 W (12
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IP67; IK10

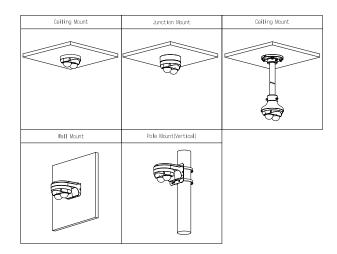


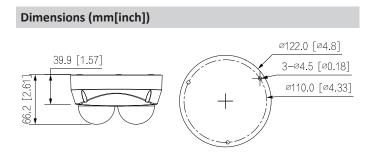


PFA137 Junction Box



PFM900-E Integrated Mount Tester





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