

# DH-IPC-HDBW3666EP-AS-AUS

6MP IR Fixed-focal Dome WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

### **Series Overview**

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its Al Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Quick Pick, and Al SSA (Al Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

### **Functions**

### **SMD 4.0**

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

#### AI SSA

Dahua AI Scene Self-adaptation (AI SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

### 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.

- 6-MP 1/2.7" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 6 MP (3072 × 2048) @25/30 fps.
- H.265 codec allows high compression ratio and 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.
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human).
- 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
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 protection.
- SMD 4.0. AI SSA.













### **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.

### 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  $\pm 30\%$  (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	
Image Sensor		1/2.7" CMOS					Al H.264  Main stream: 3072 × 2048 @ (1–25/30) fps	
Max. Resolution		3072 (H) × 2048 (V)				Video Frame Rate	Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps) Sub stream 2: 1920 × 1080 @ (1–25/30 fps) *The values above are the max. frame rates of each	
ROM		128 MB						
RAM		1 GB						stream; for multiple streams, the values will be subjected to the total encoding capacity
Scanning Sys	tem	Progressive				Stream Capability	3 streams	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					6M (3072 × 2048); 5M (2592 × 1944); 4M (2688 × 1520);	
Min. Illumination		0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)				Resolution	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)	
S/N Ratio		>56 dB				Bit Rate Control	CBR/VBR	
Illumination	Distance	50 m (164.04 ft)				Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps	
Illuminator (	On/Off Control	Auto/Manual					Day/Night	Auto (ICR)/Color/B/W
Illuminator N	lumber	3 (IR LED)					BLC	Yes
Pan/Tilt/Rotation Range		Pan: 0°-355°;	Tilt: 0°–80°; R	otation: 0°–35!	ō°		HLC	Yes
Lens							WDR	120 dB
Lens Type		Fixed-focal				Scene Self-adaptation (SSA)	Yes	
Lens Mount		M12				White Balance	Auto; natural; street lamp; outdoor; manual; regional	
Focal Length		2.8 mm; 3.6 mm; 6 mm				Gain Control	custom	
Max. Aperture		F1.4	. 1 078 1/	.: 1 748 B:	1 4208		Noise Reduction	Auto 3D NR
Field of View		3.6 mm: Hori	zontal: 80°; Vei	rtical: 71°; Diag rtical: 57°; Diag cal: 37°: Diagoi	onal: 107°		Motion Detection	OFF/ON (4 areas, rectangular)
Iris Control		6 mm: Horizontal: 50°; Vertical: 37°; Diagonal: 64°  Fixed				Region of Interest (RoI)	Yes (4 areas)	
		2.8 mm: 1.1 m (3.61 ft)				Defog	Yes	
Close Focus Distance		3.6 mm: 1.7 m (18.37 ft) 6 mm: 3.3 m (10.83 ft)				AFSA	Yes	
	Lens	Detect	Observe	Recognize	Identify			0°/90°/180°/270° (support 90°/270° with 2688×1520
	2.8 mm	63.6 m (208.66 ft)	25.4 m	12.7 m	6.4 m (21.00 ft)		Image Rotation	resolution and lower)
DORI Distance	2.6	85.4 m	(83.33 ft) 34.2 m	(41.67 ft) 17.1 m	8.5 m		Mirror	Yes
	3.6 mm	(280.18 ft)	(112.20 ft)	(56.10 ft)	(27.89 ft)		Privacy Masking	4 areas
	6 mm	124.0 m (406.82 ft)	49.6 m (162.73 ft)	24.8 m (81.36 ft)	12.4 m (40.68 ft)		Audio	
Intelligence						Built-in MIC	Yes	
IVS (Perimeter Protection)		Tripwire, intrusion (support the classification and accurate detection of vehicle and human)				Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
AI SSA		Yes					Alarm	No SD card; SD card full; SD card error; service life
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events					Alarm Event	warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Natura	changing; audio detection; voltage detection; external alarm; SMD; safety exception	
Video						Network	DL 45 (10/100 Page T)	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported				Network Port	RJ-45 (10/100 Base-T)	
		by the sub str	eam)				SDK and API	Yes

## Wiz Sense | DH-IPC-HDBW3666EP-AS-AUS

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 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	
ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
0 (Total bandwidth: 64 M)	
FTP; SFTP; Micro SD card (support max. 256 G); NAS	
IE:IE11 Chrome Firefox	
Smart PSS; DSS; DMSS	
iOS; Android	

### Certification

FCC: 47 CFR FCC Part 15, Subpart B;	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
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### 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): 8.5 W (12 VDC); 9.7 W (PoE)

### Environment

Operating Temperature	$-40^{\circ}\text{C}$ to +60°C (–40°F to 140°F) /Less than 95% RH
Storage Temperature	-40°C to +60°C (-40°F to 140°F)
Protection	IP67; IK10

### Structure

Casing	Metal		
Product Dimensions	89.1 mm × Φ111.7 mm (3.50" × Φ4.40")		
Net Weight	516 g (1.14 lb)		
Gross Weight	670 g (1.48 lb)		

Ordering Information				
Туре	Model	Description		
6MP Camera	DH-IPC-HDBW3666EP-AS-AUS	6MP IR Fixed-focal Dome WizSense Network Camera		
	PFA137	Junction Box Bracket		
	PFA109	Mount Adapter		
	PFB220C	Ceiling Mount Bracket		
Accessories	PFB203W	Wall Mount		
(Optional)	PFA152-E	Pole mount		
	PFM321D	12 VDC 1 A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	TLC SD Card		

### Accessories

### Optional:



PFA136 Junction Box Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Brack



PFB203W Wall Mount



PFA152-E Pole mount



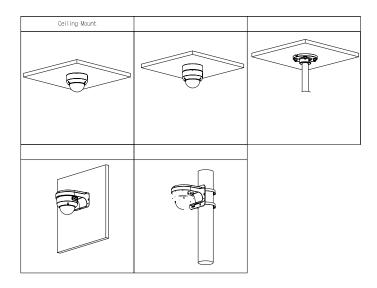
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card



### Dimensions (mm[inch])

