

# DH-IPC-HDW3888EMP-AS-AUS

8MP WDR Eyeball Network CAMERA



Wiz Sense

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**

With advanced deep learning algorithm, Dahua WizSense 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

### **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.

### **Motion Detection**

When moving objects appear in the monitoring image, Dahua Motion Detection technology triggers alarm or records.

#### **WDR**

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

- 8 MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160)@30 fps. H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 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 monitoring: Intrusion, tripwire, (the two functions 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.
- · Supports max. 256 G Micro SD card.
- 12 VDC/PoE power supply.
- IP67 protection.
- 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, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally 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.

Technical Specification				Video Frame Rate	Main stream: 3840 × 2160 (1 fps–25/30 fps); Sub stream: D1 (1 fps–25/30 fps); Third stream: 1080p (1 fps–25/30 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.			
Camera								
Image Sensor		1/1.8" CMOS						
Max. Resolution		3840 (H) × 2160 (V)					Stream Capability	3 streams
ROM		128 MB					Resolution	3840 × 2160; 3072 × 2048; 3072 × 1728; 2592 × 1944; 2688 × 1520; 2048 × 156; 2304 × 1296; 1080p (1920 × 1080); 1.3 M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
RAM		1 GB						
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumination		0.003 lux@F1.4 (Color, 30 IRE); 0.0004 lux@F1.4 (B/W, 30 IRE); 0 lux (Illuminator on)					Video Bit Rate	H.264:3 kbps-20480 kbps; H.265:3 kbps-20480 kbps
S/N Ratio		>56 dB					Day/Night	Auto(ICR)/Color/B/W
Illumination	Distance	30 m (98.43 ft)					BLC	Yes
Illuminator C	On/Off Control	Auto; Manual					HLC	Yes
Illuminator N	Number	2 (IR LED)					WDR	140 dB
Pan/Tilt/Rot	Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°				Scene Self-adaptation (SSA)	Yes
Lens		Rotation: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Type	Lens Type		Fixed-focal				Gain Control	Auto; Manual
Lens Mount		M16					Noise Reduction	3D NR
Focal Length	1	2.8 mm; 3.6 mm					Motion Detection	OFF/ON (4 areas, rectangular)
Max. Apertu	re	F1.4					Region of Interest (RoI)	Yes (4 areas)
Field of View	1		.1°; V: 59°; D: 1 7°; V: 47°; D: 10				Defog	Yes
Iris Control		Fixed					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4 M resolution and lower)
Close Focus	Distance	2.8 mm: 1.8 m (5.91 ft) 3.6 mm: 2.5 m (8.20 ft)					Mirror	Yes
	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	8 areas
DORI Distance	2.8 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)		Audio	
Distance	3.6 mm	106.0 m	42.4 m	21.2 m	10.6 m		Built-in MIC	Yes
Intelligen	60	(347.77 ft) (139.11 ft) (69.55 ft) (34.78 ft)				Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723	
intelligen	ce						Alarm	
IVS (Perimeter Protection)		Intrusion, tripwire(the two functions 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
SMD 3.0		Yes						changing; audio detection; voltage detection; SMD; stay detection; security exception; defocus detection
Smart Searcl	Smart Search		Works together with Smart NVR to perform refine intelligent search, event extraction and merging to event				Network	
		videos					Network Port	RJ-45 (10/100 Base-T)
Video							SDK and API	Yes
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					Network Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP
Smart Codec		Smart H.265+; Smart H.264+					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P
Al Coding		AI H.265;AI H.264					User/Host	20 (Total handwidth: 90 M)

User/Host

20 (Total bandwidth: 80 M)

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Storage	FTP; SFTP; Micro SD card (Support max. 256 G); NAS		
Browser	IE: IE8 and later; Chrome; Firefox		
Management Software	Smart PSS; DSS; DMSS		
Mobile Client	iOS; Android		
Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification		
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 RCM		
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### Power

Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 3.7 W (12 VDC); 4.6 W (PoE) Max. (H.265 + 3 streams + intelligence + IR): 6.7 W (12 VDC); 7.8 W (PoE);Basic: 3.7 W (12 VDC); 4.6 W (PoE) Max. (H.265 + 3 streams + intelligence + IR): 6.7 W (12 VDC); 7.8 W (PoE)		

### Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Protection	IP67

### Structure

Casing Material	Metal
Product Dimensions	93.6 mm × Φ106.0 mm (3.69" × Φ4.17")
Net Weight	0.5 kg (1.10 lb)
Gross Weight	0.68 kg (1.50 lb)

Ordering Information				
Туре	Model	Description		
8MP Camera	DH-IPC-HDW3888EMP-AS- AUS	8MP WDR Eyeball Network CAMERA		
	PFA130-E	Water-proof Junction Box		
	PFB204W	Wall Mount Bracket		
	PFA152-E	Pole Mount Bracket		
Accessories	PFA106	Mount Adapter		
(Optional)	PFB220C	Ceiling Mount Bracket		
	PFM321D	12 VDC 1 A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

### Accessories

### Optional:







PFB204W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA106 Mount Adapter



PFB220C Ceiling Mount Bracket



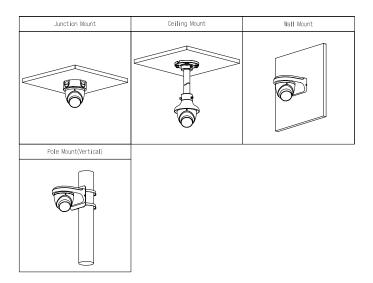
PFM321D 12V DC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



### Dimensions (mm[inch])

