

# DH-IPC-HDW3666EMP-S-AUS

6MP IR Fixed-focal Eyeball WizSense 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**

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its AI 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 AI SSA (AI 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, 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.
- 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.
- Max. 256 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67 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, 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  $\pm 30\%$  (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.

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#### **Technical Specification** Camera Image Sensor 1/2.7" CMOS Max. Resolution 3072 (H) × 2048 (V) ROM 128 MB RAM 1 GB Scanning System Progressive Auto/Manual 1/3 s-1/100,000 s **Electronic Shutter Speed** 0.005 lux@F1.4 (Color, 30 IRE) Min. Illumination 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on) S/N Ratio >56 dB Illumination Distance 50 m (164.04 ft) Illuminator On/Off Control Auto/Manual Illuminator Number 2 (IR LED) Pan: 0°-360°; Tilt: 0°-78°; Rotation: 0°-360° Pan/Tilt/Rotation Range Lens Lens Type Fixed-focal Lens Mount M12 2.8 mm; 3.6 mm; 6 mm Focal Length F1.4 Max. Aperture 2.8 mm:Horizontal: 97°; Vertical: 71°; Diagonal:129° 3.6 mm:Horizontal: 80°; Vertical: 57°; Diagonal:107° Field of View 6 mm:Horizontal: 50°; Vertical: 37°; Diagonal: 64° Iris Control Fixed 2.8 mm: 1.1 m (3.61 ft) **Close Focus Distance** 3.6 mm: 1.7 m (18.37 ft) 6 mm: 3.3 m (10.83 ft) Lens Detect Observe Recognize Identify 25.4 m 6.4 m 63.6 m 12.7 m 2.8 mm (208.66 ft) (83.33 ft) (41.67 ft) (21.00 ft) DORI 85.4 m 34 2 m 17.1 m 85 m Distance 3.6 mm (280.18 ft) (112.20 ft) (56.10 ft) (27.89 ft) 124.0 m 49.6 m 24.8 m 12.4 m 6 mm (162.73 ft) (406.82 ft) (81.36 ft) (40.68 ft) Intelligence Tripwire, intrusion (support the classification and IVS (Perimeter Protection) accurate detection of vehicle and human) AI-SSA Yes With AI NVR, quickly pick up the human/vehicle targets Quick Pick that users are interested in from SMD events Work together with Smart NVR to perform refine Smart Search intelligent search, event extraction and merging to event videos Video H.265; H.264; H.264H; H.264B; MJPEG (only supported Video Compression by the sub stream)

Smart H.265+

Smart H.264+

Smart Codec

AI Coding	AI H.265 AI H.264	
Video Frame Rate	Main stream: $3072 \times 2048 @ (1-25/30) \text{ fps}$ Sub stream 1: $704 \times 576 @ (1-25 \text{ fps})/704 \times 480 @ (1-30 \text{ fps})$ Sub stream 2: $1920 \times 1080 @ (1-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity	
Stream Capability	3 streams	
Resolution	6M (3072 × 2048); 5M (2592 × 1944); 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)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 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 (RoI)	Yes (4 areas)	
Defog	Yes	
AFSA	Yes	
Image Rotation	0°/90°/180°/270° (support 90°/270° with 2688×1520 resolution and lower)	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Built-in MIC	Yes	
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
Alarm		
Alarm Event	No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; SMD; safety exception	
Network		
Network Port	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
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	

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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		
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	
Power		
Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 4.3 W (12 VDC); 4.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 7.6 W (12 VDC); 8.9 W (PoE)	
Environment		
Operating Temperature	-40 °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	
Structure		
Casing	Metal	
Product Dimensions	93.6 mm × Φ106.0 mm (3.69" × Φ4.17")	
Net Weight	500 g (1.10 lb)	
Gross Weight	770 g (1.70 lb)	

Ordering Information		
Туре	Model	Description
6MP Camera	DH-IPC-HDW3666EMP-S-AUS	6MP IR Fixed-focal Eyeball WizSense Network Camera
F Accessories (Optional) F F	PFA139	Junction Box
	PFB204W	Wall Mount
	PFA106	Ceiling Mount
	PFB220C	Ceiling Mount
	PFA152-E	Pole Mount
	PFM321D	12 VDC 1 A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100	TLC SD Card

#### Accessories





Junction

Box

PFB220C

Ceiling

Mount

PFB204W



#### PFA106 Ceiling Mount



PFM321D 12 VDC 1 A Power Adapter



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

PFM900-E

Integrated

Mount Tester

Wall

Mount

PFA152-E

Pole

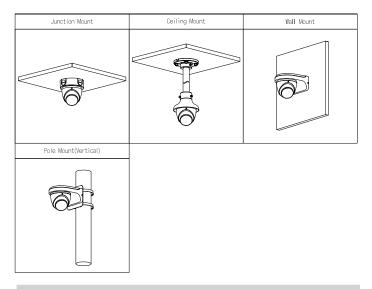
Mount

-2

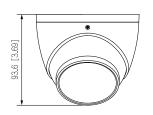
**∂/hua** 256<sub>GB</sub> ⊍42 ™≌ 130

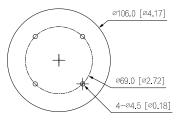
TF-P100 TLC SD Card

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### Dimensions (mm[inch])





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