



DH-IPC-PDW3849-A180-AS-PV

2x4MP TiOC Duo Splicing Fixed-focal Eyeball 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 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, 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.

FPT7

With advanced target detection and tracking algorithms, Dahua EPTZ technology can simultaneously zoom in and track multiple humans and vehicles that trigger alarms. It provides rich details and a panoramic view at the same time.

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

- · Outputs 180° wide angle splicing image.
- Outputs max. 8 MP (4096 × 1860)@20 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED and warm light, the max. IR illumination distance is 25 m and warm light distance is 20 m.
- ROI, SMART H.264 +/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- 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), stay detection, loitering detection.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 512 G Micro SD card; built in dual Mic; built in speaker, support two-way talk.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- · Sound and light alarm (red and blue lights).
- EPTZ: Enlarge and track the targets of intelligent alarms.
- · One-tap arming/disarming through alarm input.













Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the warm light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the warm light is off and the IR illuminator is on, which reduces light pollution efficiently.

One-tap Disarming

Dahua One-tap Disarming function, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage through mobile App, which meets multi-scenarios needs.

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.

EPTZ

Technical Specification							Video	
Camera						Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	
Image Sensor		Dual 1/2.7" CMOS					Al Coding	AI H.265; AI H.264 *Includes smart codec technology, Smart H.265+ and Smart H.264+
Max. Resolution		4096 (H) × 1860 (V)						
ROM		128 MB					Video Frame Rate	Main stream: 4096 × 1860@(1–20 fps) Sub stream: 1200 × 530@(1–20 fps) Third stream: 1920 × 860@(1–20 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.
RAM		1 GB						
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Stream Capability	3 streams
Min. Illumination		0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)					Resolution	8M (4096 × 1860); 6M (3632 × 1632); 4M (3040 × 1368); 1200 × 530; 1920 × 860; 960 × 432; D1 (704 × 576/704 × 480)
S/N Ratio		>56 dB					Bit Rate Control	CBR/VBR
Illumination Distance		Up to 25 m (82.02 ft) (IR LED) Up to 20 m (65.62 ft) (Warm light)					Video Bit Rate	H.264: 6 kbps –16384 kbps H.265: 6 kbps –16384 kbps
Illuminator On/Off Control		Auto; Manual					Day/Night	Auto(ICR)/Color/B/W
Illuminator N	lumber	2 (IR LED); 2 (Warm light)					BLC	Yes
Angle Adjust	Angle Adiustos ont		Pan: 0°–360° Tilt: 0°–77°				HLC	Yes
Aligic Aujust	inene	Rotation: 0°–360°					WDR	120 dB
Lens							Scene Self-adaptation (SSA)	Yes
Lens Type		Fixed-focal					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Mount		M12 2.8 mm					Gain Control	Auto
Focal Length Field of View		Horizontal: 180°; Vertical: 86°					Noise Reduction	3D NR
Max. Aperture		F1.4					Motion Detection	OFF/ON (4 areas, rectangular)
Iris Control		Fixed					Region of Interest (RoI)	Yes (4 areas)
Close Focus Distance		0.8 m (2.62 ft)					Privacy Masking	4 areas
	Lens	Detect	Observe	Recognize	Identify		Defog	Yes
DORI Distance	2.8 mm	50.6 m	20.2 m	10.1 m	5.1 m		Audio	
	*DORI (Detec	(166.01 ft) (66.27 ft) (33.14 ft) (16.73 ft) RI (Detect, Observe, Recognize, Identify) is a standard system					Built-in MIC	Yes, built-in dual Mic
	(EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.						Built-in speaker	Yes, built-in speaker Max power consumption: 2 W; max sound level at 10 cm: 110 dB * Test results from laboratory
Intelligence							Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
	5		Intrusion, tripwire (the two functions support the				Alarm	
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human), stay detection, loitering detection						No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; stay
SMD		SMD 4.0					Alarm Event	detection; video tampering; tripwire; intrusion; stay detection; loitering detection; scene changing; audio detection; voltage detection; external alarm; SMD; security exception
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events.						
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.					Network	
							Network Port	RJ-45 (10/100 Base-T)

SDK and API

Enlarge and track the targets of intelligent alarms

Security	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				
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; PPPoE; SNMP; P2P				
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI				
User/Host	20 (Total bandwidth: 64 M)				
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS				
Browser	IE: IE 8 and later Chrome Firefox				
Management Software	Smart PSS Lite; DSS; DMSS				
Mobile Client	iOS; Android				
Certification					
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU				
Port					
Audio Input	1 channel (RCA port)				
Audio Output	1 channel (RCA port)				
Alarm Input	1 channel in: wet contact, 5 mA 3 V–5 VDC				
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC				
Power					
Power Supply	12 VDC (±30%); PoE (802.3af)				
Power Consumption	Basic: 3.95 W (12 VDC); 4.95 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.7 W (12 VDC); 10.85 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	Metal				
Product Dimensions	Φ122 mm × 135.2 mm (Φ4.80" × 5.32")				

990 g (2.18 lb) 1150 g (2.54 lb)

Net Weight

Gross Weight

Ordering Information							
Туре	Model	Description					
8MP Camera	DH-IPC-PDW3849-A180- AS-PV	2x4MP TiOC Duo Splicing Fixed- focal Eyeball WizSense Network Camera					
SIVIP Camera	IPC-PDW3849-A180-AS-PV	2x4MP TiOC Duo Splicing Fixed- focal Eyeball WizSense Network Camera					
	PFA137	Junction Box					
	PFB205W-E	Wall Mount Bracket					
	PFB220C	Ceiling Mount Bracket					
Accessories	PFA109	Mount Adapter					
(Optional)	PFA152-E	Pole Mount Bracket					
	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					
	PFM321D	12 VDC 1A Power Adapter					

Accessories

Optional:







PFB220C Ceiling Mount Bracket



PFA109 Mount Adapter



PFA152-E Pole Mount Bracket



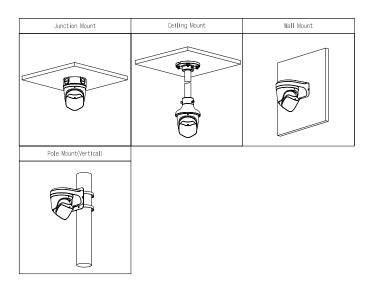
PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



PFM321D 12V DC 1A Power Adapter



Dimensions (mm[inch])

