



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.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 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.

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.

Technical Specification					Main stream: 4096 × 1860@(1–20 fps) Sub stream: 1200 × 530@(1–20 fps)				
Camera							Video Frame Rate	Third stream: 1920 × 860@(1–20 fps) *The values above are the max, frame rates of each	
Image Sensor		Dual 1/2.7" CMOS						stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Max. Resolution		4096 (H) × 1860 (V)					Stream Capability	3 streams	
ROM		128 MB					Resolution	4096 × 1860; 3632 × 1632; 3040 × 1368; 1200 × 530; 1920 × 860; 960 × 432	
RAM		1 GB					Bit Rate Control	CBR/VBR	
Scanning Sys	stem	Progressive						H.264: 6 kbps –16384 kbps	
Electronic Sh	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Video Bit Rate	H.265: 6 kbps –16384 kbps	
Min. Illumina	ation		4 (Color, 30 IF 1.4 (B/W, 30 II ator on)				Day/Night BLC	Auto(ICR)/Color/B/W Yes	
C/N Patio							HLC	Yes	
S/N Ratio		>56 dB Up to 25 m (82.02 ft) (IR LED)					WDR	120 dB	
Illumination	Distance		5.62 ft) (Warn				Scene Self-adaptation (SSA)	Yes	
Illuminator (On/Off Control Number	Auto; Manual 2 (IR LED); 2 (Warm light)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
		Pan: 0°–360°				Gain Control	Auto		
Angle Adjust	tment	Tilt: 0°–77° Rotation: 0°–360°				Noise Reduction	3D NR		
Lens							Motion Detection	OFF/ON (4 areas, rectangular)	
Lens Type		Fixed-focal					Region of Interest (RoI)	Yes (4 areas)	
Lens Mount		M12				Privacy Masking	4 areas		
Focal Length	1	2.8 mm				Defog	Yes		
Field of View	V	Horizontal: 180°; Vertical: 86°				Audio			
Max. Apertu	ire	F1.4				Built-in MIC	Yes, built-in dual Mic		
Iris Control		Fixed				Built-in speaker	Yes, built-in speaker		
Close Focus	Distance	0.8 m (2.62 ft)				Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723		
DORI	Lens	Detect	Observe	Recognize	Identify		Alarm	,,,,	
Distance	2.8 mm	50.6 m (166.01 ft)	20.2 m (66.27 ft)	10.1 m (33.14 ft)	5.1 m (16.73 ft)		, darin	No SD card; SD card full; SD card error; network	
Intelligen	ce er Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and				Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene chaging; audio detection; voltage detection; external alrm; SMD; security exception		
175 (1 61111166	errocection	human)				Network			
SMD	SMD		SMD 4.0				Network Port	RJ-45 (10/100 Base-T)	
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events.					SDK and API	Yes	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.					encryption; Digest; WSSE; Account lockout; IP/MAC filtering; Generation and importing a certification; syslog; HTTPS; 802.1x; Trusted execution; Trusted upgrade IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; U	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 19; Trusted boot: Trusted	
EPTZ		Enlarge and track the targets of intelligent alarms							
Video Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported						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; P2P	
		by the sub stream) Smart H.265+;					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI	
Smart Codec		Smart H.264+				User/Host	20 (Total bandwidth: 64 M)		
Al Coding		AI H.265; AI H.264				Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS		
							Storage	, or 11 , micro ob cara (support fliax. 250 Ob), 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		

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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")
Net Weight	990 g (2.18 lb)
Gross Weight	1150 g (2.54 lb)

Ordering Information				
Туре	Model	Description		
	DH-IPC-PDW3849-A180- AS-PV	2x4MP TiOC Duo Splicing Fixed- focal Eyeball WizSense Network Camera		
8MP 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:







PFB205W-E Wall Mount Bracket



PFB220C Ceiling Mount Bracket



PFA109 Mount Adapter



PFA152-E Pole Mount Bracket



PFM900-E Integrated Mount Tester

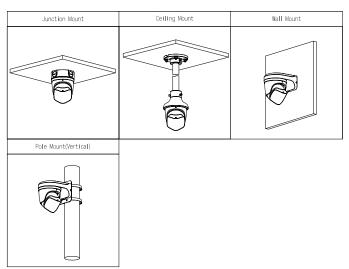


TF-P100 $\mathsf{MicroSD}$ Memory Card



PFM321D 12V DC 1A Power Adapter





Dimensions (mm[inch])

