

DH-IPC-PDW3849-A180-AS-PV

2x4MP TiOC Duo Splicing Fixed-focal Eyeball WizSense Network Camera



TIOC DUC

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.

EPTZ

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.
- SMD 4.0.
- 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 $\pm 30\%$ (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 compromising the device.



+61 45 22 45 222

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Technical Specification

Camera						
Image Sensor		Dual 1/2.7" CMOS				
Max. Resolution		4096 (H) × 1860 (V)				
ROM		128 MB				
RAM		1 GB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination		0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>56 dB				
Illumination Distance		Up to 25 m (82.02 ft) (IR LED) Up to 20 m (65.62 ft) (Warm light)				
Illuminator On/Off Control		Auto; Manual				
Illuminator Number		2 (IR LED); 2 (Warm light)				
Angle Adjustment		Pan: 0°–360° Tilt: 0°–77° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Lens Mount		M12				
Focal Length		2.8 mm				
Field of View		Horizontal: 180°; Vertical: 86°				
Max. Apertu	Max. Aperture		F1.4			
Iris Control		Fixed				
Close Focus Distance		0.8 m (2.62 ft)				
DORI	Lens	Detect	Observe	Recognize	Identify	
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)	

Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)		
SMD	SMD 4.0		
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.		
EPTZ	Enlarge and track the targets of intelligent alarms		
Video			
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)		
Smart Codec	Smart H.265+; Smart H.264+		
AI Coding	AI H.265; AI H.264		

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.		
Stream Capability	3 streams		
Resolution	4096 × 1860; 3632 × 1632; 3040 × 1368; 1200 × 530; 1920 × 860; 960 × 432		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 6 kbps –16384 kbps H.265: 6 kbps –16384 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)		
Privacy Masking	4 areas		
Defog	Yes		
Audio			
Built-in MIC	Yes, built-in dual Mic		
Built-in speaker	Yes, built-in speaker		
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723		
Alarm			
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene chaging; audio detection; voltage detection; external alrm; SMD; security exception		
Network			
Network Port	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
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		
	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		
Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;		
Network Protocol Interoperability	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;		
	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2P		

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

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



PFA137

Junction Box



PFB205W-E

Wall Mount Bracket



PFB220C Ceiling Mount Bracket



PFA109

Mount Adapter



PFA152-E Pole Mount Bracket



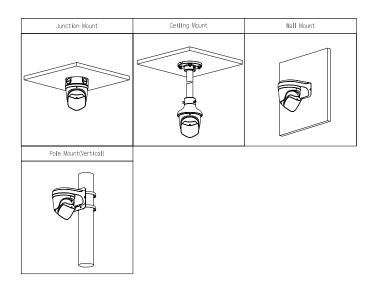
TF-P100 MicroSD Memory Card

PFM321D 12V DC 1A Power Adapter





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Dimensions (mm[inch])

