



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;
RAM		1 GB					Bit Rate Control	1920 × 860; 960 × 432 CBR/VBR
Scanning System		Progressive						H.264: 6 kbps –16384 kbps
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Bit Rate	H.265: 6 kbps –16384 kbps
Min. Illumina	Min. Illumination		0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE)				Day/Night BLC	Auto(ICR)/Color/B/W Yes
		0 lux (Illuminator on)					HLC	Yes
S/N Ratio		>56 dB					WDR	120 dB
Illumination	Distance	Up to 25 m (82.02 ft) (IR LED) Up to 20 m (65.62 ft) (Warm light)					Scene Self-adaptation	Yes
Illuminator (On/Off Control	Auto; Manual					(SSA)	
Illuminator N	Number	2 (IR LED); 2 (Warm light)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Angle Adjust	ment	Pan: 0°–360° Tilt: 0°–77° Rotation: 0°–360°					Gain Control	Auto
,							Noise Reduction	3D NR
Lens							Motion Detection	OFF/ON (4 areas, rectangular)
Lens Type	Lens Type		Fixed-focal				Region of Interest (RoI)	Yes (4 areas)
Lens Mount		M12					Privacy Masking	4 areas
	Focal Length		2.8 mm				Defog	Yes
Field of View		Horizontal: 180°; Vertical: 86°					Audio	
Max. Aperture		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)			No SD card; SD card full; SD card error; network
Intelligence IVS (Perimeter 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
,		human)					Network	
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.					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
EPTZ		Enlarge and track the targets of intelligent alarms						execution; Trusted upgrade
Video Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported					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; 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					·	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
							Storage	TH, SETT, WILLO SD Cally (Support Max. 250 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 FCC: 47 CFR FCC Part 15, Subpart B				
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					
SIVIP Carriera	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

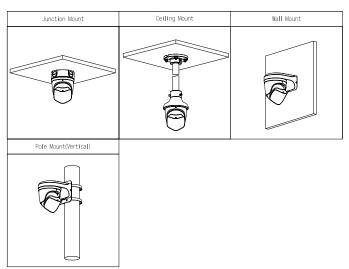


TF-P100 MicroSD Memory Card



PFM321D 12V DC 1A Power Adapter





Dimensions (mm[inch])

