

DH-IPC-PT2449C1-S-PV-PRO

4MP WizColor Active Deterrence WizSense Network PT 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

WizColor series cameras utilize groundbreaking technology to capture full-color images at night, overcoming the limitations of darkness. With advanced AI noise reduction and smart recognition, these cameras deliver images with rich colors and clear targets even in low light conditions, and eliminate motion blur in dynamic scenes. Whether in urban or rural settings, this series provides uninterrupted 24-hour high-definition intelligent monitoring for diverse environments.

Functions

WizColor Technology

Dahua WizColor Technology seamlessly combines with the powerful AI-ISP, large pixel size sensor and large aperture in cameras. This unique integration enables cameras to effortlessly capture high-quality images with vibrant colors during nighttime scenarios, ensuring fine details are preserved and minimizing motion blur. Unlike traditional self-illuminating cameras, Dahua WizColor Technology maximizes the utilization of weak light sources, such as moonlight and city lights reflected in the sky, delivering captivating full-color images of the entire scene. It also ensures that monitoring distances are not compromised at night due to limited illumination ranges, facilitating full-color image capture even over long distances.

- · 1/1.8" 4Megapixel CMOS.
- · WizColor Technology.
- Max. 25/30 fps@4MP.
- · H.265 Encoding.
- · SMD Plus.
- · Perimeter Protection.
- · Two-way Talk.
- Auto Tracking Lite.
- · Preset Patrol.
- IP66 Protection.











AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

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.

IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

Technical Specificatio	n					Vehicle Detection	Yes
Camera					Intelligence		
Image Sensor	1/1.8" CMOS					Smart Tracking	Auto Tracking Lite
Pixel	4MP					SMD	SMD Plus
Max. Resolution	2688 (H) × 1520 (V)					Active Deterrence	
ROM	256 MB						Warm light warning
RAM	256 MB					Light Warning	Flash duration: 5 s–30 s; Flash frequency: high, medium, low
Electronic Shutter Speed	1–1/100,000 s						Offers 3 sound alarm.
Scanning System	Progressive					Sound Warning	Sound can be set from 0%–100%. Play times can be set from 1-10.
Min. Illumination	0.0005 lux@F1.0 (Color, 30 IRE); 0 lux (Illuminator on);					Video	Secret HOSE HOSE Secret
Illumination Distance	3.6 mm: 30 m (98.43 ft) (Warm light)					Video Compression	Smart H.265+;H.265;Smart H.264+;H.264B;H.264M;H.264H;MJPEG(Sub Stream
Illuminator On/Off Control	Auto; Manual; Off					Streaming Capability	2 streams
Illuminator Number	4 (Warm ligh	nt)					4M (2688 × 1520);4M (2560 × 1440);3M (2304 × 1
Lens						Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 720); D1(704×576); VGA(640 × 480); CIF(352 × 288)
Focal Length	3.6 mm					Video Frame Rate	Main stream: 2560 × 1440@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–
Max. Aperture	F1.0						fps)
Field of View	3.6 mm: H: 97°; V: 52°; D: 114°					Bit Rate Control	CBR/VBR
Close Focus Distance	3.6 mm: 2.6			Danamina		Video Bit Rate	H.264: 8 kbps-6,400 kbps H.265: 3 kbps-3,840 kbps
	Lens	Detect	Observe	Recognize	Identify	Day/Night	Color/B/W
		49.7 m (162.91	19.6 m (64.35	9.9 m (32.58	5.0 m (16.29	BLC	Yes
		ft)	ft)	ft)	ft)	WDR	120 dB
DORI Distance	*DORI (Dete		_			HLC	Yes
	a standard system (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					White Balance	Auto; indoor; outdoor; tracking; manual; sodium la natural light; street lamp
						Gain Control	Auto; Manual; Gain Priority
	intelligent fo	unction di	istances, re	efer to insta	llation	Noise Reduction	2D NR; 3D NR
6.7-7	and commissioning manual/project design tool.					Motion Detection	Yes
PTZ						Region of Interest (RoI)	Yes
Pan/Tilt Range	Pan: 0° to 34 Tilt: 0° to 90°					Defog	Electronic
Manual Control Speed	Pan: 0.1°-34	1.5°/s; Tilt:	0.1°–36.4°/	/s		Digital Zoom	16 ×
Preset Speed	Pan: 0.1°-33	3.8°/s; Tilt:	0.1°–36.3°/	/s		Image Rotation	180°
Preset	50					S/N Ratio	≥55 dB
	8 (up to 6 pre					Audio	
Tour	preset is 60 to 360 sec and tour interval is 900 to 3,600 sec)					Audio Compression	PCM, G.711A, G.711Mu
Power-off Memory	Yes					Built-in MIC	Yes
Idle Motion	Preset;Tour					Built-in Speaker	Yes
Smart Event					Network		
IVS	Tripwire; intr	rusion				Network Port	RJ-45 (10/100 Base-T)
Human Detection	Yes					Wi-Fi	Yes

Network Protocol	HTTP;HTTPS;TCP/ IP;IPv4;RTSP;UDP;NTP;DHCP;DNS;DDNS;IPv6;SSL;QoS;F TP;ICMP;IGMP;ARP;RTCP;RTP;RTMP		
Interoperability	ONVIF (Profile S & Profile G & Profile T);CGI;SDK		
Streaming Method	Unicast/Multicast		
User/Host	20 (total bandwidth: 64 M)		
Storage	Micro SD card (Up to 512 GB); FTP		
Browser	IE: IE 7 and later versions; Chrome; Firefox; Safari		
Management Software	DMSS;NVR		
Mobile Client	iOS;Android		
Function			
Abnormal Sound Alarm	Yes		
Certification			
Certifications	CE		
Port			
Audio Input	1 channel (built-in mic)		
Audio Output	1 channel (built-in speaker)		
Alarm Linkage	Capture; recording; audio; light		
Alarm Event	Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection		
Power			
Power Supply	12 VDC, 1A ± 10% PoE (802.3af)		
Power Consumption	PoE: Basic: 3.6 W Max: 9.5 W (illuminator + PTZ)		
Power Adapter	Optional		
Environment			
Operating Temperature	−30 °C to +55 °C (−22 °F to +131 °F)		
Operating Humidity	≤95%		
Protection	IP66;TVS 2000 V lightning proof; surge protection; voltage transient protection		
Structure			
Product Dimensions	153.5 mm × Φ129.3 mm (6.04" × Φ5.09")		
Net Weight	0.8kg (1.76 lb)		
Constant Mailable	4.21 (2.64 !!)		

Ordering Information						
Туре	Model	Description				
NETWORK PT CAMERA	DH-IPC-PT2449C1-S-PV- PRO	4MP WizColor Active Deterrence WizSense Network PT Camera				
	DH-PFM321-EN	DC12V1A power adapter				
Accessories (Optional)	DH-PFM320D-EN	DC12V2A power adapter				
	PFM900-E	Integrated Mount Tester				

1.2kg (2.64 lb)

Accessories

Optional:







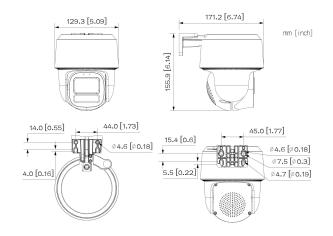
DH-PFM320D-EN DC12V2A power adapter

DH-PFM321-EN
DC12V1A power adapter

PFM900-E Integrated Mount Tester

Ceiling Mount	Wall Mount

Dimensions (mm[inch])



Rev 002.000

Gross Weight

© 2025 Dahua. All rights reserved. Design and specificatons are subject to change without notce Pictures in the document are for reference only, and the actual product shall prevail.