

DH-IPC-PTS2449C-4E3Z-S-PV-PRO

4MP+2MP WizColor Vari-focal 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

With advanced deep learning algorithm, Dahua WizSense 2 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

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.

- · Displays videos in two channels at the same time
- 1/1.8" 4Megapixel CMOS and 1/2.8" 2Megapixel CMOS
- WizColor Technology
- Max. 25/30 fps@4MP and Max. 25/30 fps@2MP
- · 6x Hybrid Zoom
- H.265 Encoding
- · SMD 3.0
- · Perimeter Protection
- · Two-way Talk
- · Auto Tracking Lite
- Tour















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.

Tap and View

Easy to use, you can tap on any spot in the live video feed from the fixed lens, allowing the PT lens to instantly rotate and focus on your selected area, delivering a clear close-up view of the target.

SMD 3.0

Empowered by deep-learning algorithms, Dahua SMD filters out motion detection alarms triggered by targets that are not a concern. It quickly recognizes humans and vehicles, triggering alarms when an intrusion occurs.

Smart Hybrid Zoom

By integrating multiple sensors with various fixed lenses, this camera delivers exceptional zoom performance. When the built-in Al algorithm detects a human, the lens automatically zooms in, tracks the target's movement, and effortlessly captures both close-up and distant scenes for precise monitoring.

Technical Specification								not reflect intelligent function distances. For
Camera							DORI Distance	intelligent function distances, refer to installation and commissioning manual/project design tool.
Image Sensor	Fixed Lens: 1/1.8" CMOS						PTZ	
Pixel	PT Lens: 1/2.8" CMOS Fixed Lens: 4 MP PT Lens: 2 MP						Pan/Tilt Range	Fixed Lens: Pan: 0° to 285°; Tilt: -7° to +20° (manual) PT Lens: Pan: 0° to 350°; Tilt: 0° to +90° (Electric)
	PT Lens: 2 MP						Manual Control Speed	Pan: 40°/s; Tilt: 40°/s
Max. Resolution	Fixed Lens: 2688 (H) × 1520 (V) PT Lens: 1920 (H) × 1080 (V)						Preset Speed	Pan: 40°/s; Tilt: 40°/s
ROM	256 MB						Preset	80
RAM	512 MB						8 (up to 6 presets per tour; the stay duration for each	
Electronic Shutter Speed	1 s-1/100,000 s						Tour	preset is 60 to 360 sec and tour interval is 900 to 3,600 sec)
Scanning System	Progressive						Power-off Memory	Yes
	Fixed Lens: 0.0005 lux@F1.0 (Color, 30 IRE) 0 lux (Illuminator on)						Idle Motion	Preset;Tour;home position(only supports setting on DMSS)
Min. Illumination	PT Lens:		or 30 IDE)				PTZ Locked	YES
	0.0005 lux@F1.0(Color, 30 IRE) 0 lux (Illuminator on)						Smart Event	
Illumination Distance	Fixed Lens: 30 m (98.43 ft)(Warm light) PT Lens: 50 m (164.04 ft) (Warm light)						IVS	Tripwire; Intrusion
							Human Detection	Yes
							Vehicle Detection	Yes
Illuminator On/Off Control	Fixed Lens: Manual; Auto; Off PT Lens: Manual; Auto; Off						Intelligence	
Illuminator Number	Fixed Lens	: 4 (Warm li	ght)				Smart Tracking	Auto Tracking Lite; Linkage Tracking Lite
PT Lens: 4 (Warm light)							SMD	SMD 3.0
Lens							Active Deterrence	
Focal Length	Fixed Lens: 2.8 mm PT Lens: 3.6 mm; 8.4 mm						Light Warning	Warm light warning; Flash duration: 5 s–30 s; Flash frequency: high, medium, low
Max. Aperture	Fixed Lens: F1.0 PT Lens: 3.6 mm: F1.0; 8.4 mm: F1.0						Sound Warning	Offers 3 sound alarm. Sound can be set from 0%–100%. Play times can be set from 1-10.
	Fixed Lens: H:112 °; V: 60°; D: 134° PT Lens: H: 81.5° – 15.1°; V: 44.3° – 8.4°; D: 96.3° – 17.88°						Video	
Field of View							Video Compression	Smart H.265+;H.265;Smart H.264+;H.264B;H.264M;H.264H;MJPEG(Sub Stream 1)
Hybrid Zoom	G.						Streaming Capability	2 streams
Close Focus Distance	6x Fixed Lens: 2.8 mm PT Lens: 3.6 mm; 8.4 mm: Fixed Lens: 1.8 m (5.91 ft) PT Lens: 3.6 mm: 1.7 m (5.58 ft); 8.4 mm: 6 m (19.69 ft)						Resolution	Fixed Lens: 4M (2688 × 1520); 4M (2560× 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M(1280 ×960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) PT Lens: 1080p (1920 × 1080); 1.3M (1280 ×960); 720p
Iris Control	Fixed Lens: Fixed Iris PT Lens: Fixed Iris							(1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
DORI Distance	Lens Fixed Lens: 2.8 mm PT Lens: 3.6 mm;	Detect 120 m (126.71 ft)	Observe 47.4 m (50.07 ft)	Recogniz e 24 m (25.33 ft)	12 m (12.66 ft)		Video Frame Rate	Fixed Lens: Main stream: 4M/3M/1080p/1.3M/720p@(1–25/30 fps) Sub stream: D1/VGA/CIF@(1–25/30 fps) PT Lens: Main stream: 1080p/1.3M/720p@(1–25/30 fps) Sub stream: D1/VGA/CIF@(1–25/30 fps)
	8.4 mm						Bit Rate Control	CBR/VBR
	*DORI (Detect, Observe, Recognize, Identify) is 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							

Video Bit Rate	Fixed Lens: H264: 96 kbps–8192 kbps H265: 38 kbps–8192 kbps PT Lens: H264: 64 kbps–8192 kbps H265: 25 kbps–7424 kbps			
Day/Night	Fixed Lens: Color PT Lens: Color			
BLC	YES			
WDR	Fixed Lens: 120dB PT Lens: DWDR			
HLC	YES			
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp			
Gain Control	Auto; Manual; Gain Priority			
Noise Reduction	2D NR; 3D NR			
Motion Detection	Yes			
Region of Interest (RoI)	Yes			
Defog	Fixed Lens: Electronic PT Lens: Electronic			
Image Rotation	180°			
S/N Ratio	≥55 dB			
Audio				
Audio Compression	PCM; G711A; G711Mu			
Built-in MIC	Yes			
Built-in Speaker	Yes			
Network				
Network Port	RJ-45 (10/100 Base-T)			
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 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions			
Management Software	DMSS			
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, 1.5A ± 25% PoE (802.3af)				
Power Consumption	Basic: 3.9 W Max. (Basic power consumption + WDR + intelligence on + Warm light on + PTZ operation + Speaker): 12W				
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	191 mm × 130 mm × 216.6 mm (7.52" × 5.12" × 8.53") (L × W × H)				
Net Weight	1.1 kg (2.43 lb)				
Gross Weight	1.7 kg (3.75 lb)				
Filter					
Remarks	The precision of the presets for PTZ cameras might vary depending on different series. For scenes with high requirements on the precision, contact your local sales representative for assistance with selecting the model.				

Ordering Information							
Туре	Model	Description					
IP CAMERA	DH-IPC-PTS2449C-4E3Z-S- PV-PRO	4MP+2MP WizColor Vari- focal Network PT Camera					
Accessories (Optional)	DH-PFA2590	Pole Mount Bracket					

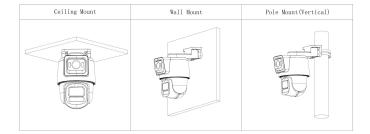
Accessories

Optional:



DH-PFA2590 Pole Mount Bracket





Dimensions (mm[inch])

