



DH-PTZCE405-A-PV1

4MP 5x TiOC WizSense + Network PTZ 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.

System Overview

The Three-in-One Camera (TiOC) solution combines 24/7 monitoring, active deterrence and real-time alarms with artificial intelligence into one smart, innovative solution. With horizontal and vertical rotation of TiOC PTZ camera, greatly improving the monitoring scope of key targets. For distributors and installers, it not only saves time, but also reduces cost.

Functions

Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighting, WDR adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

Siren And Light Active Deterrence

Dahua siren and light active deterrence network camera supports the white light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention.

- · 1/2.8" 4Megapixel CMOS.
- · 5x optical zoom.
- · Max. 25/30fps@4M.
- · IR distance up to 50 m.
- · Warm light illumination distance up to 30 m.
- · SMD 3.0.
- · Perimeter protection.
- · Face detection.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out.
- · Built-in Mic and Speaker for Two-way Talk.
- · 12 VDC/PoE power supply.
- · IP66.
- · Sound and light alarm (red and blue lights).













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 white 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 white light is off and the IR illuminator is on, which reduces light pollution efficiently.

Two-way Talk

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way talk through the mobile app.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

SMD

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.

Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

Technical Specification					Supports face detection, snapshot, and face
Camera			Face Detection	enhancement; Supports face cutout: Face, one-inch photo;	
Image Sensor	1/2.8" CMOS				Capturing strategies include real-time capturing and quality first
Pixel	4 MP			Auto Tracking Lite	Yes
Max. Resolution	2560 (H) × 1440 (V)			SMD	Yes
ROM	128 MB			Active Deterrence	
RAM	512 MB			Light Warning	Red and blue light warning Flash duration: 5 s–30 s Flash frequency: high, medium, low
Electronic Shutter Speed	1/1 s-1/30,000 s				
Scanning System	Progressive			Sound Warning	Offers 11 types of sound alarms, and supports importing up to 10 custom sound alarms. The sound
Min. Illumination				Video	alarm can be set to play 1 to 10 times
	0 lux (IR light on) 50 m (164.04 ft) (IR)			Video Compression	H.264H;H.264B;Smart H.265+; H.264;H.265;MJPEG(Sub Stream);Smart H.264+
Illumination Distance	30 m (98.43 ft) (Warm light)			Streaming Capability	3 streams
Illuminator On/Off Control	Zoom Prio; Manual; Auto;	Off		oti carring capasine,	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 ×
Illuminator Number	2 (IR) 2 (Warm light) 1 (Red light)	2 (Warm light)			1080); 1.3M (1280 × 960); 720p(1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)
Lana	1 (Blue light)	1 (Blue light)		Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p @(1–25/30 fps)
Lens Focal Length					Sub stream 1: D1/CIF/VGA@ (1–25/30 fps) Sub stream 2: 720p @(1–25/30 fps)
Max. Aperture	F1.6-F3.0	2.7 mm-13.5 mm			CBR/VBR
·	H: 94.9°–30.1°;			Video Bit Rate	H.264: 96 kbps–14848 kbps H.265: 38 kbps–8960 kbps
Field of View	V: 51°–17.1°; D: 112.3°–34.6°			Day/Night	Auto (ICR)/Color/B/W
Optical Zoom	5×	5x			Yes
Focus Control	Auto; semi-auto; manual	Auto; semi-auto; manual			120 dB
Close Focus Distance	1.5 m (4.92 ft)	1.5 m (4.92 ft)			Yes
Iris Control	Fixed			White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
DORI Distance	Detect Observe 270 m 106.6 m	Recognize 54 m	Identify 27 m	Gain Control	Auto; manual
	(885.83 ft) (349.74 ft)	(177.17 ft)	(88.58 ft)	Noise Reduction	2D NR; 3D NR
PTZ				Motion Detection	Yes
Pan/Tilt Range	Pan: 0° to 355° Tilt: –15° to +90°			Region of Interest (RoI)	Yes
Manual Control Speed	Pan: 0.1°/s–36°/s Tilt: 0.1°/s–25.8°/s			Image Stabilization	Electronic (EIS)
Preset Speed	Pan: 35.7°/s; Tilt: 27.1°/s				Electronic
Preset	300			Digital Zoom	16×
Power-off Memory	Yes			Image Rotation	180°
Idle Motion	Preset			S/N Ratio	≥55 dB
Intelligence	Intelligence			Audio	
	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking			Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM
IVS (Perimeter Protection)				Network	
				Network Port	RJ-45 (10/100 Base-T)

Wiz Sense L	DH-PTZCE405-A-PV1
Network Protocol	FTP;RTMP;IPv6;Bonjour;IPv4;DNS;RTCP;PPPoE;NTP;RT P;802.1x;HTTPS;SNMP;TCP/IP;DDNS;UPnP;NFS;ICMP;U DP;IGMP;SMB;HTTP;SSL;DHCP;SMTP;Qos;RTSP;ARP
Interoperability	CGI;SDK;ONVIF (Profile S&G&T);P2P
Streaming Method	Unicast/Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	FTP/SFTP; Micro SD card (512 GB); NAS
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions
Management Software	DMSS;DSS Pro
Mobile Client	iOS;Android
Certification	
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014
Port	
Audio Input	1 channel (LINE IN, bare wire, built-in mic (mutually exclusive))
Audio Output	1 channel (LINE OUT,bare wire;built-in speaker (mutually exclusive))
Alarm Linkage	Capture; recording; send email; preset; alarm digital input; audio; warning light
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection
Alarm I/O	1/1
Audio I/O	1/1
Power	
Power Supply	12 VDC, 2 A ± 10% PoE+ (802.3at)
Power Consumption	Basic: 4.5 W Max.: 15 W (illuminator + PTZ + speaker + heating glass)
Environment	
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Operating Humidity	≤95%
Protection	IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection
Structure	
Product Dimensions	142.6 mm \times 140 mm \times 236.1 mm (5.61" \times 5.51" \times 9.29")

1.5 kg (3.31 lb)

2.1 kg (4.63 lb)

*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.

Net Weight

Gross Weight

Ordering Information					
Туре	Model	Description			
4MP WizSense +	DH-PTZCE405-A-PV1	4MP 5x TiOC WizSense + Network PTZ Camera			
PTZ Camera	PTZCE405-A-PV1	4MP 5x TiOC WizSense + Network PTZ Camera			
Accessories (Optional)	PFA121	Junction Box			
	PFA152-E	Pole Mount Bracket			
	DC 12 V/2A	Power Adapter			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

Accessories

Optional:







PFA121 Junction Box

PFA152-E Pole Mount Bracket

PFM320D 12 VDC 2 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Wall Mount	Ceiling Mount	
/	1	
Pole Mount(Vertical)		
PFA121+PFA152-E		

Dimensions (mm[inch])



