

DH-SDT6C432-4P-GB-APV-0280

4MP 32X Smart Dual Light Network Panoramic PTZ Camera



WizSense

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 multi-sensor series pushes the bar on PTZ cameras with its enhanced monitoring capabilities captured in its unique lens design. Fitted with an extra lens, it quickly tracks targets while keeping an eye on the monitored area. They also harness the strength of their embedded AI intelligent chip to perform a wide variety of intelligent functions, making them ideal for use in many scenarios.

- 1/2.8" 4Megapixel STARVIS™ CMOS.
- 32× optical zoom.
- Starlight technology.
- Max. 25/30 fps@2560 × 1440.
- IR distance up to 200 m.
- Auto-tracking.
- Perimeter protection.
- Face detection.
- IP66.
- Sound and light alarm.
- 180° Panoramic Splicing.



Functions

Face Detection

Supports 6 attributes and 8 expressions. It also supports face cutout settings: Face, and single inch photo. Three snapshot methods are also featured: Real-time snapshot, priority snapshot, and quality priority.

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.

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.

Technical Specification

Camera

Image Sensor	Panorama: 1/2.8" CMOS Detail: 1/2.8" CMOS
Pixel	Panorama: 4 MP Detail: 4 MP
Max. Resolution	Panorama: 3840 (H) × 1080 (V) Detail: 2560 (H) × 1440 (V)
ROM	Panorama: 4 GB Detail: 4 GB
RAM	Panorama: 1 GB Detail: 1 GB
Electronic Shutter Speed	Panorama: 1/1 s–1/10,000s Detail: 1/1s–1/30,000s
Slow Shutter	Yes
Scanning System	Progressive
Min. Illumination	Panorama: Color: 0.001 lux@F1.0 B/W: 0.0001 lux@F1.0 Detail: Color: 0.005 lux@F1.5 (1/25 s, 30 IRE, gain 100) B/W: 0.0005 lux@F1.5 (1/25 s, 30 IRE, gain 100) 0 Lux (IR on)
Illumination Distance	Panorama: 30 m (98.43 ft) (White light)Detail: 200 m (656.17 ft) (IR)
Image Settings	Saturation, Brightness, Contrast, Sharpness
Image Parameters Switch	Panorama: Yes; Detail: Yes
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off
Illuminator Number	Panorama: 4 (White light) Detail: 4 (IR), 2 (White light)

Lens

Focal Length	Panorama: 2.8 mm Detail: 4.8 mm–186.2 mm			
Max. Aperture	Panorama: F1.0 Detail: F1.6 – 4.0			
Field of View	Panorama: H: 180° ± 5°; V: 51° Detail: H: 55.8°–2.3°; V: 31.9°–1.3°; D: 63.7°–2.7°			
Optical Zoom	Panorama - N/A Detail- 32x			
Proportional Zoom	Yes			
Focus Control	Panorama: NA Detail: Auto; semi-auto; manual			
Close Focus Distance	Panorama: 0.3 m (0.98 ft) Detail: 0.8 m–5 m (2.62 ft–16.40 ft)			
Iris Control	Panorama: Fixed Detail: Auto; manual			
DORI Distance	Detect	Observe	Recognize	Identify
	Panorama: 38.6 m (126.64 ft) Detail: 3080 m (10104.99 ft)	Panorama: 15.3 m (50.20 ft) Detail: 1216.6 m (3991.47 ft)	Panorama: 7.7 m (25.26 ft) Detail: 616 m (2021.00 ft)	Panorama: 3.9 m (12.80 ft) Detail: 308 m (1010.50 ft)

PTZ

Pan/Tilt Range	Detail: H: 0°–360° endless V: –15°–+90°
Manual Control Speed	Detail: Pan: 0.1°/s–160°/sTilt: 0.1°/s–120°/s
Zoom Speed	Details: approx. 5.6 s
Preset Speed	Detail: Pan: 240°/s; Tilt: 200°/s
Preset	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off Memory	Yes
Park Action & Scheduled Task	Preset, Pattern scan, Tour scan, Auto scan, Tilt scan, Random scan, Frame scan, Panorama scan
Idle Motion	Pattern; Preset; Scan; Tour
PTZ Status Display	Yes
3D Positioning	Yes
PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)

Intelligence

IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; region entrance, region exiting; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking
Face Detection	Supports face detection, optimization, tracking, capturing pictures, uploading high-quality face snapshots, and face enhancement; Supports attributes extraction. 6 attributes and 8 expressions; Supports face cutout: Face, one-inch photo. Capturing strategies include real-time capturing, optimization, and quality first
Auto Tracking	Yes

Active Deterrence

Light Warning	Supports white light warning; the flashing time can be configured as: 5 to 30 seconds, and the frequency can be configured as high/medium/low
Sound Warning	A total of 11 audio alarm contents, and supports importing custom audio. The sound can be configured at three levels: high/medium/low, and the duration time can be configured as 5 to 30 seconds. 110 dB.

Video

Video Compression	H.264H;H.264B;Smart H.265+;H.265;MJPEG(Sub Stream);Smart H.264+;H.264M
Streaming Capability	3 streams
Resolution	Panorama: 3840 × 1080; 960 × 268; D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240); Details: 2560 × 1440 (2560 × 1440); 3M (2048 × 1536); 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)

Video Frame Rate	<p>Panorama: 50 Hz Main stream (3840 × 1080@25 fps), Sub stream 1 (960 × 268@25 fps), Sub stream 1 (704 × 576@25 fps), Sub stream 1 (640 × 480@25 fps), Sub stream 1 (352 × 288@25 fps), Sub stream 2 (1920 × 540@25 fps), Sub stream 2 (1920 × 1080@25 fps), Sub stream 2 (1280 × 960@25 fps), Sub stream 2 (1280 × 720@25 fps) 60 Hz Main stream (3840 × 1080@30 fps), Sub stream 1 (960 × 268@30 fps), Sub stream 1 (704 × 576@30 fps), Sub stream 1 (640 × 480@30 fps), Sub stream 1 (352 × 288@30 fps), Sub stream 2 (1920 × 540@30 fps), Sub stream 2 (1920 × 1080@30 fps), Sub stream 2 (1280 × 960@30 fps), Sub stream 2 (1280 × 720@30 fps) Details: 50 Hz Main stream (2560 × 1440@25 fps), Main stream (2048 × 1536@25 fps), Main stream (2304 × 1296@25 fps), Main stream (1920 × 1080@25 fps), Main stream (1280 × 960@25 fps), Main stream (1280 × 720@25 fps) Sub stream 1 (704 × 576@25 fps), Sub stream 1 (640 × 480@25 fps), Sub stream 1 (352 × 288@25 fps), Sub stream 2 (1280 × 720@25 fps) 60 Hz Main stream (2560 × 1440@30 fps), Main stream (2048 × 1536@30 fps), Main stream (2304 × 1296@30 fps), Main stream (1920 × 1080@30 fps), Main stream (1280 × 960@30 fps), Main stream (1280 × 720@30 fps) Sub stream 1 (704 × 480@30 fps), Sub stream 1 (640 × 480@30 fps), Sub stream 1 (352 × 240@30 fps)Sub stream 2 (1280 × 720@30 fps)</p>
Bit Rate Control	CBR/VBR
Video Bit Rate	<p>Panorama: H.264: 2,816 kbps-13,824 kbps H.265: 1,024 kbps-8,192 kbps Detail: H.264: 2,816 kbps-13,056 kbps H.265: 1,024 kbps-7,936 kbps</p>
Day/Night	Paronama: Auto (ICR)/Color/B/W Detail: Auto (ICR)/Color/B/W
BLC	Yes
WDR	Paronama: 120 db, Detail: 120db
HLC	Yes
Demist	Demist by heating the glass
White Balance	Auto; indoor; outdoor; ATW; manual;sodium lamp; fluorescent lamp; natural light; street lamp; locked White Balance
Gain Control	Paronama: Auto/manual Detail: Auto/manual
Noise Reduction	Paronama: 2D/3D noise reduction Detail: 2D/3D noise reduction
Regional Exposure	Yes
Regional Focus	Yes
Region of Interest (RoI)	Fixed 8 Area, (Dynamic Target Tracking, Main Stream, Sub-Stream and Third Stream)
Image Stabilization	Electronic Image Stabilization (EIS)
Defog	Paronama: Electronic Defog Detail: Electronic Defog
Digital Zoom	16×
Image Rotation	180°
S/N Ratio	Panorama: ≥55 dB, Detail: ≥55 dB
Privacy Mask	Polygon region, Mosaic mask, Mask color configurable Paronama: 8 Masks, Detail: 24 Masks

Audio

Audio Compression	PCM; G.711alaw; G.711Mu; G.726; MPEG2-Layer2; G722.1;G729; G723; MP2L2, AAC
Audio Bit rate	32 kbps, 40 kbps, 48 kbps, 56 kbps, 64 kbps, 80 kbps, 96kbps, 112 kbps, 128kbps, 144 kbps, 160 kbps, 192 kbps
Audio Sampling Rate	16 kHz, 32 kHz, 48 kHz, PCM: 8 kHz, 16 kHz, 32 kHz, 48kHz
Environment Noise Filtering	Yes

Network

Network Port	RJ-45 (10/100 Base-T)
Network Protocol	FTP;RTMP;IPv6;Bonjour;IPv4;DNS;RTCP;PPPoE;NTP;RT P;802.1x;HTTPS;SNMP;TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP;SMTP; Qos; RTSP; ARP
Interoperability	CGI;ONVIF (Profile S&G&T)
User/Host	32 (total bandwidth: 64 M)
Simultaneous Live View	20 total channels
Storage	FTP; Micro SD card (up to 512 G); NAS (NFS, SMB/CIFS), ANR with Video Content Analytics.
Browser	IE 10 and later versions; Chrome 57 and later versions; Firefox 52 and later versions; iOS 10 and later versions
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, HTTPS encryption.
Management Software	MDSS;DSS Pro
Mobile Client	iOS; Android

Certification

Certifications	UL; CE: DHQA-ESH-P22100890/DHQA-ESH-P22100654B-A1
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Port

Audio Input	1 channel (LINE IN, bare wire)
Audio Output	1 channel (LINE OUT, bare wire)
Alarm Linkage	Capture; PTZ linkage (preset; tour; pattern); recording; alarm digital input; audio; send email
Alarm Event	Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; illegal login; SD card abnormal detection; memory spacedetection; Video tampering detection.
Alarm I/O	2/1
Audio I/O	1/1

Power

Power Supply	36 VDC/2.23 A ± 25% (Built in Voltage Transient Protection)
Power Consumption	Basic power consumption: 20 W Max. power consumption: 35 W (IR + heater + intelligent functions + PTZ working)

Environment

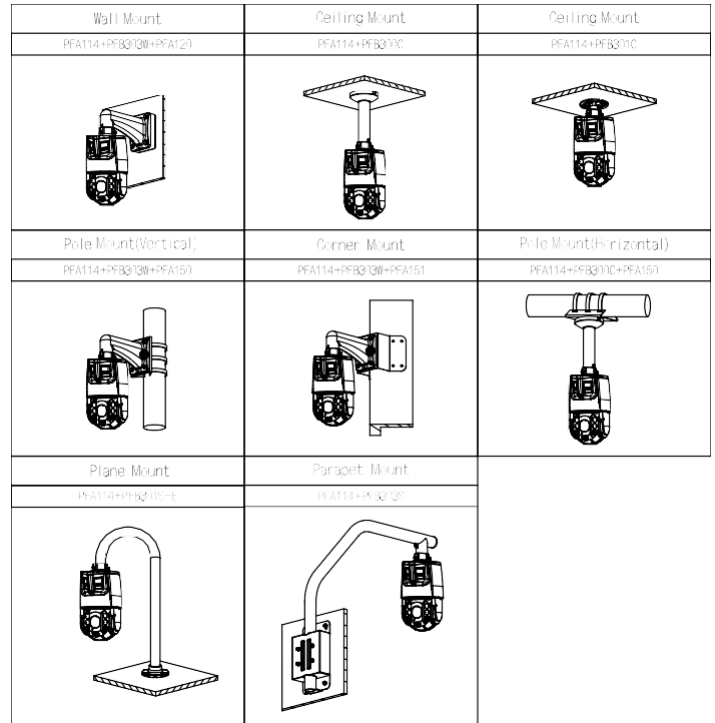
Operating Temperature	-30 °C to +65 °C (-22 °F to +149 °F), Humidity ≤90%
Protection	IP66, IK10, 6KV Lightning surge Protection.

Structure

Casing Material	Plastic, aluminum alloy
Product Dimensions	247 mm × 202 mm × 359.8 mm (9.72" × 7.95" × 14.17") (L × W × H)
Weight	Net: 5.3 kg (11.68 lb), Gross: 7.12 kg (15.70 lb)

Ordering Information

Type	Model	Description
4MP Camera	DH-SDT6C432-4P-GB-APV-0280	4MP 32× Smart Dual Light Network Panoramic PTZ Camera
	DH-SDT6C425-4P-GB-APV-0280	4MP 25× Smart Dual Light Network Panoramic PTZ Camera
Accessories	DC36V/2.23A	Power Adapter
	PFA114	Mount Adapter
	PFB303W	Wall Mount Bracket
	PFB300C	Ceiling Mount Bracket
	PFB301C	Ceiling Mount Bracket
	PFA150	Vertical Pole Mount Bracket
	PFA151	Corner Mount Bracket
	PFA150 + PFB300C	Horizontal Pole Mount Bracket
	PFB301S-E	Plane Mount Bracket
	PFB303S	Parapet Mount Bracket



Accessories

Included:



DC36V/2.23A Power Adapter



PFA114 Mount Adapter



PFB303W Wall Mount Bracket

Optional:



PFB300C Ceiling Mount Bracket



PFB301C Ceiling Mount Bracket



PFA150 Vertical Pole Mount Bracket



PFA151 Corner Mount Bracket



PFA150 + PFB300C Horizontal Pole Mount Bracket



PFB301S-E Plane Mount Bracket

Dimensions (mm[inch])

