

# DH-SDT6E432-8P-MB-A-PV1

8+4MP 32x Smart Dual Illumination Active Deterrence X-Spans Network PTZ Camera





#### Series 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.

#### **Functions**

## 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.

### 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.

#### AcuPick

This industry-leading search technology effectively utilizes both frontend and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

# **Smart Tracking**

The panoramic camera links with the detail camera to track targets. When the target enters the panoramic area, the detail camera starts to monitor them and tracks their movement by rotating, zooming and focusing the PTZ camera lens. This allows the camera to produce highly detailed images with the movement of targets for security personnel.

- Overview channel: Outputs 180° wide angle splicing image Max.
   25/30 fps@8M
- Detail channel: 1/2.8"4Megapixel STARVIS<sup>™</sup> CMOS 32× optical zoom Max. 25/30 fps@4M
- · IR distance up to 250m
- · Warm light distance up to 100m
- · Xinghan Large-Scale AI Models
- WizTracking
- Face detection
- · Perimeter protection Active deterrence
- · Smart dual light +
- · Built-in dual mics and a speaker for two-way talk
- · Sound and light alarm (red and blue lights)
- · Gyroscope EIS
- Acupick
- · SMD 4.0
- IP67
- · IK10













### 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.

#### Xinghan Large-Scale Al Models-Vision

Xinghan Large-Scale AI Models-Vision seamlessly expands the storage and operational capacity of algorithmic models through the powerful integration of edge AI model algorithms and NPU computing power. Engineered with a lightweight transformer architecture and enhanced by model distillation and quantization techniques, it optimizes the computing power consumption of ViT operators. This enables the system to collaborate on multiple tasks simultaneously through joint inference between small and large models optimized for edge devices.

#### SMD4.0

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.

Technical	Specification	n				DORI Distance		or intelligent function distances, refer to installation sioning manual/project design tool.
Camera						PTZ		
Image Senso	r	Overview cha	nnel: 1/2.7" CN	MOS; Detail cha	annel: 1/2.8"	Pan/Tilt Rang	e	Pan: 0° to 360° endless Tilt: –20° to +90°, auto flip 180°
Pixel		Overview cha	nnel: 8 MP; De	tail channel: 4	MP	Manual Cont	rol Speed	Pan: 0°/s–260°/s; Tilt: 0°/s–140°/s
Max. Resolut	ion	Overview cha 2560 (H) × 14	nnel: 4096 (H)	× 1860 (V); De	tail channel:	Preset Speed		Pan: 300°/s; Tilt:200°/s
ROM		, ,	40 (v) nnel: 4 GB; De	tail channel: A	GR	Preset		300
RAM			nnel: 2 GB; De			Tour		8 (up to 32 presets per tour)
Electronic Sh	uitter Speed	1 s-1/30,000		tali criamilei. 2	OB .	Pattern		5
Scanning Sys		Progressive	-			Scan		5
Scarring Sys	tem	Overview cha	nnel·			Power-off Me	emory	Yes
		0.005 lux@F1	.4 (Color, 30 IR			Idle Motion		Preset;Pattern;Tour;Scan
Min. Illumina	ation	0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (illuminator on)			Intelligend	ce		
			6 (Color, 30 IR 1.6 (B/W, 30 IF					Overview channel: NA Detail channel: Supports detection of motor vehicles, non-motor vehicles, faces and human bodies, optimization, capturing pictures, and uploading high-
Illumination I	Distance	(white light) Detail channe (820.21 ft) (IR		08 ft) (warm lig		Video Metad	ata	quality face snapshots. It extracts attributes from motor vehicles and non-motors, detecting up to 10 attributes for motor vehicles and 8 for non-motor vehicles. It also extracts attributes from human faces and bodies, detecting up to 6 attributes for faces, and 8 for bodies.
Illuminator C	n/Off Control		nnel: Manual; l: Zoom Prio; N		Off	IVS (Perimete	er Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving;
Illuminator N	lumber		nnel: 2 (IR light ual light fusion		nt); Detail	ivo (i elimete	rrotection	parking detection; people gathering; human alarm classification; linkage tracking
Lens								Overview channel: NA Detail channel: Supports face detection, optimization,
Focal Length		Overview cha 154 mm	nnel: 2.8 mm;	Detail channel	: 4.8 mm-			capturing pictures, uploading high-quality face snapshots and enhancing face images. Attribute
Max. Apertur	re	Overview cha	nnel: F1.4; Det	ail channel: F1	.6-F4.0	Face Detection	on	extraction is also supported, where 6 attributes and 8 expressions can be detected. Face cutout is also
Field of View	,		nnel: H: 180°; \ 31.9°–1.3°; D:		hannel: H:			offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-
Optical Zoom	Optical Zoom Ov		Overview channel: NA; Detail channel: 32×				time capturing, quality first, and selecting a preferred image among a group of snapshots.	
Focus Contro	ol	Auto; manual	; semi-auto					Overview channel: Vehicle density; parking upper limit;
Close Focus [	Distance	Overview cha m-1.5 m (0.3	nnel: 0.6 m (1. 3 ft–4.92 ft)	97 ft); Detail ch	nannel: 0.1	Vehicle Densi	ty	traffic congestion; vehicle status alarm Detail channel: NA
Iris Control		Overview cha	nnel: NA; Deta	il channel: Aut	o; manual;			
	Lens	Detect	Observe	Recognize	Identify			
	Overview channel: 2.8 mm	56.0 m ( 183.72 ft)	22.4 m ( 73.49 ft)	11.2 m ( 36.74 ft)	5.6 m ( 18.37 ft)			
DORI	Detail channel: W	96.0 m ( 314.96 ft)	37.9 m ( 124.41 ft)	19.2 m ( 62.99 ft)	9.6 m ( 31.50 ft)			
Distance	Т	3080.0 m ( 10104.99 ft)	1216.6 m ( 3991.47 ft)	616.0 m ( 2021.00 ft)	308.0 m ( 1010.50 ft)			
	*DORI (Detec (EN-62676-4) video to distin	nguish persons	ne ability of a or objects wi	person viewin	ng the d area.			

The numbers in this table do not reflect intelligent function

	Overview channel: NA	Bit Rate Control	CBR/VBR
	Detail channel: Detects 6 helmet colors: Red, orange, yellow, blue, white, and black. An alarm will be triggered when a person is not wearing a helmet or when the color of the helmet that they are wearing	Video Bit Rate	Overview channel: H264: 128 kbps–16,384 kbps H265: 51 kbps–13,312 kbps ; Detail channel: H264: 96 kbps–16,384 kbps H265: 38 kbps–10,240 kbps;
	does not match the configured color. It also supports compliance detection for work uniforms. Up to 5 work uniform sample libraries can be uploaded, which	Day/Night	Overview channel: Auto; Color; B/W; Electronic Detail channel: Auto; Color; B/W; Electronic
	together can contain up to 1,000 images (the images must be 1080p and in the JPG format). An alarm	BLC	Yes
Construction Manifestor	will be triggered when the similarity between the	WDR	Overview channel: DWDR; Detail channel: 120 dB
Construction Monitoring	detected work uniform and the samples in the library is below the set threshold (that is, below the minimum	HLC	Yes
	compliance standard for work uniforms). The system supports detecting the attributes of work uniforms such as the color of the uniform, and whether or not the person is wearing a mask and wearing shoe covers.  An alarm will be triggered when the target is detected	White Balance	Overview channel: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp Detail channel: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
	as not meeting the set requirements. It also detects and triggers alarms when only one person is in the construction site, and when no one is present in the	Gain Control	Overview channel: Auto; manual; gain prio Detail channel: Auto; manual; gain prio
	detection area such as when a worker leaves their post or an area is left unmanned.	Noise Reduction	Overview channel: 2D NR; 3D NR Detail channel: Auto: 2D NR; 3D NR
Smart Tracking	Linkage tracking, Auto tracking	Motion Detection	Yes
	Overview channel: Crowd map (Large-Scale Al Models), global crowd density; crowd density in area; people	Region of Interest (RoI)	Yes
Crowd Distribution Map	counting in area; crowd status Detail channel: NA	Image Stabilization	Overview channel: NA Detail channel: Gyroscope EIS
SMD	SMD 4.0	Defog	Overview channel: Electronic Detail channel: Electronic
	Uses deep learning algorithms and works with backend	Digital Zoom	Overview channel: NA; Detail channel: 16×
AcuPick	devices to accurately match targets, such as people and motor vehicles, and search through live and recorded	Image Rotation	Overview channel: NA Detail channel: 180°
	videos to quickly locate targets  Overview channel: NA	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view Multiple colors and mosaic available
Auto Patrol	Detail channel: After an IVS event occurs, the PTZ camera immediately initiates automated patrol of	S/N Ratio	≥55 dB
	predefined key points to quickly cover potential risk areas and detect unknown threats in real time.	Audio	
Active Deterrence		Audio Compression	PCM, G.711A, G.711Mu, G.726, MPEG2-Layer2, G.722.1, G.729
Light Warning	Red-Blue light warning; Flash duration: 5 s–30 s; Flash frequency: high, medium, low	Built-in MIC	Yes
	Offers 11 sound alarm and 10 custom sound alarms can	Built-in Speaker	Yes
Sound Warning	be imported. Sound can be set from 0%–100%. Play times can be set from 1-10.	Network	
Video		Network Port	RJ-45 (100/1,000 Base-T)
Video Compression	Smart H.265+;H.265;Smart H.264+;H.264B;H.264M;H.264H;MJPEG(Sub Stream 1)	Network Protocol	HTTP;HTTPS;TCP/ IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;IPv6;802. 1x;SSL;Qos;FTP;UPnP;ICMP;SNMP;IGMP;ARP;RTCP;RTP;
Streaming Capability	3 streams		PPPoE;RTMP;Bonjour;NFS
	Overview channel: 8M (4096 × 1860); 2M (2048 × 928); 1080p (1920 × 1080); 720p (1280 × 720); 1024 × 448;	Interoperability	ONVIF (Profile S & Profile G & Profile T);CGI;SDK;P2P
Resolution	D1 (704 × 576/704 × 480);VGA (640 × 480);CIF (352	Streaming Method	Unicast/Multicast
Resolution	× 288/352 × 240); Detail channel: 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 ×	User/Host	20 (total bandwidth: 64 M)
	960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	Storage	Micro SD card (512 GB); FTP/SFTP; NAS
	Overview channel: Main stream: 4096 × 1860 @(1–25/30 fps) Sub stream 1: 1024 × 448/D1/VGA/CIF @(1–25/30 fps) Sub stream 2: 2048 × 928/1080p/1.3M/	Browser	web5.0: IE 9 and later versions; Chrome 41 and later versions; Firefox 52 and later versions; Safari 10 and later versions
Video Frame Rate	720p @(1–25/30 fps); Detail channel: Main stream: 4M/3M/1080p/1.3M/720p @(1–25/30 fps) Sub stream	Management Software	DMSS;DSS Pro
	1: D1/VGA/CIF @(1-25/30 fps) Sub stream 2: 1080p/	Mobile Client	iOS;Android
	1.3M/720p/ @(1–25/30 fps)		

# X-Spans | DH-SDT6E432-8P-MB-A-PV1

Certification	
Certifications	CE:EN55035;EN IEC61000-3-2;EN55032;EN60950;EN62368-1
Port	
RS-485	1 (Bit range: 1200 bps–9600 bps)
Audio Input	$1\ \mbox{channel}$ (LINE IN, bare wire,built-in mic (mutually exclusive) )
Audio Output	1 channel (LINE OUT,bare wire;built-in speaker (mutually exclusive) )
Alarm Input	2 (on-off value input: 0–5 VDC)
Alarm Output	1 channel
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output; audio; warning light
Alarm Event	Motion/tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection
Power	
Power Supply	36 VDC/2.23 A ± 25%; PoE++(802.3bt)
Power Consumption	Basic power consumption: 18 W Max. power consumption: 40 W (IR + intelligent functions + PTZ + Siren and Light Active Deterrence)
Power Adapter	Included
Environment	
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating Humidity	≤95%
Protection	IP67;IK10;TVS 6000 V lightning proof; surge protection; voltage transient 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)
Net Weight	5.3 kg (11.68 lb)

Ordering Information				
Туре	Model	Description		
Network PTZ Camera	DH-SDT6E432-8P-MB-A- PV1	8+4MP 32x Smart Dual Illumination Active Deterrence X-Spans Network PTZ Camera		
	PFB303W	Wall Mount Bracket		
	DC36V/2.23A	Power Adapter		
	PFA114	Mount Adapter		
Accessories	DH-PFB301S-E	Plane Mount Bracket		
	DH-PFB300C	Ceiling Mount Bracket		
	DH-PFA151	Corner Mount Bracket		
	DH-PFA126	Water-proof Junction Box		

7.12 kg (15.7 lb)

Gross Weight

Туре	Model	Description
Accessories	DH-PFA150	Pole Mount Bracket
Accessories	DH-PFB303S	Parapet Mount Bracket

# Accessories

Included:







DC36V/2.23A Power Adapter



PFA114 Mount Adapter

Optional:



DH-PFA126 Water-proof Junction Box



DH-PFA150 Pole Mount Bracket



DH-PFA151 Corner Mount Bracket



DH-PFB300C Ceiling Mount Bracket



DH-PFB301S-E Plane Mount Bracket



DH-PFB303S Parapet Mount Bracket

Wall Mount	Ceiling Mount	Ceiling Mount
PFA114+PFB303W+PFA120	PFA114+PFB300C	PFA114+PFB301C
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)
PFA114+PFB303W+PFA150	PFA114+PFB303W+PFA151	PFA114+PFB300C+PFA150
Plane Mount	Parapet Mount	
PFB301S-E	PFA111+PFB303S	

# Dimensions (mm[inch])

