

# DH-SDT3E410-8P-MB-A-PV1

8MP+4MP 10x Starlight TiOC Network Panoramic & PTZ Camera



#### **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**

#### Starlight Technology

For challenging low-light conditions, Dahua's Starlight Ultra-low Light Technology has exceptional light sensitivity, capturing images in vivid detail, even in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

#### **Smart Codec**

With advanced scene-adaptive rate control algorithm, Dahua smart codec technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

#### **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.

- · Panorama: Outputs 180° wide angle splicing image
- · Detail: 1/2.8"4Megapixel STARVIS™ CMOS
- · 10x optical zoom
- · Starlight technology
- · Max. 25/30 fps@8M
- · IR distance up to 70 m
- $\cdot$  Warm light illumination distance up to 30 m
- · Active deterrence
- · Auto tracking Lite
- · Perimeter protection
- · Face detection
- · SMD4.0
- · IP66
- · Smart dual light











# **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.

#### **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.

#### Protection (IP66, TVS 6000 V)

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

Camera							
Camera					Pan/Tilt Range	Pan: 0° to 345°; Tilt: -10° to +90°	
Imago Concor	Overview channel: 1/2.8" CMOS; Detail channel: 1/2.8" CMOS				Manual Control Speed	Overview channel: NA; Detail channel: H: 0.1°–80°/s; V: 0.1°–50°/s	
Divol	Overview channel: 8 MP; Detail channel: 4 MP				Preset Speed	H: 80°/s; V: 50°/s	
May Recolution	Overview channel: 5376 (H) × 1520 (V); Detail channel: 2560 (H) × 1440 (V)				Preset	300	
DOM	Overview channel: 4 GB;				Power-off Memory	Yes	
	Detail channel: 4 GB  Overview channel: 2 GB;				Idle Motion	Preset	
RAM	Detail channel: 1GB				Intelligence		
Electronic Shutter Speed	Overview channel: 1 s – 1/100,000 s; Detail channel: 1 s – 1/30,000 s				IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human/vehicle	
Scanning System	Progressive					alarm classification; linkage tracking (only for people)	
Min. Illumination	Overview channel: 0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE); 0 lux (illuminator on) Detail channel: 1 s=1/30,000 s 0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE); 0 lux (illuminator on)				Face Detection	Detail channel: Supports face detection, optimization, capturing pictures, uploading high-quality face snapshots and enhancing face images. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. Face cutout is also 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-time capturing, quality first, and selecting a preferred image among a group of snapshots.	
	Overview channel: 30 m (98.43 ft) (IR); 30 m (98.43 ft) (white light) Detail channel:				SMD	SMD 4.0	
Illumination Distance					SMD	Yes	
70 m (229.66 ft); 30 m (98.43 ft) (white light)			)		Active Deterrence		
Illuminator On/Off Control	Overview channel: Manual; Auto; Off Detail channel: Zoom Prio; Manual; Auto; Off Overview channel: 2 (IR light); 2 (white light);				Light Warning	Red and blue light warning; Flash duration: 5 s–30 s; Flash frequency: high, medium, low	
	Illuminator Number Detail channel: 2 (Dual light fusion); 2 (IR light)				Sound Warning	Offers 11 sound alarm and 10 custom sound alarms	
Lens						can be imported.  Sound can be set from 0%–100%.  Play times can be set from 1-10.	
Focal Length Overview channel: 2.8 mm; Detail channel: 4 mm-40 mm					Video		
May Aperture	Overview channel: F1.6; Detail channel: F1.6-F3.6				Video Compression	H.264H; H.264B; Smart H.265+; H.265; Smart H.264+; H.264M; MJPEG (Sub Stream 1)	
Field of View	Overview channel: H: 180°; V: 47°; Detail channel: H: 58°–11.3°; V: 33.1°–6.4°; D: 66.4°–				Streaming Capability	3 streams	
Ontical Zoom	12.8°  Overview channel: NA;  Detail channel: 10×				Resolution	Overview channel: 5376 × 1520; 26886 × 752; 1080p (1920 × 1080); 720p (1280 × 720); 1344 × 368; D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); Detail channel: 2560 × 1440; 3M (2304 × 1296); 1080p (1920 × 1080); 1280 × 960 (1.3M); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)	
Focus Control	Auto; manual; semi-auto						
	Overview channel: 0.6 m (1.97 ft); Detail channel: 0.1 m-0.5 m (0.33 ft-1.64 ft)						
Iris ( Ontrol	Overview channel: NA; Detail channel: NA					Overview channel: Main stream: 5376 × 1520 @(1–25/30 fps) Sub stream 1: 1344 × 368/D1/VGA/CIF@ (1–25/30 fps)	
DORI Distance			Recognize  100 m (328.08 ft) ecognize, Ident 6-4) for definir	• •	Video Frame Rate	Sub stream 2: 2688 × 752/1080p/1.3M/720p @ (1–25/30 fps); Detail channel: Main stream: 4M/3M/1080p/1.3M/720p @(1–25/30 fps) Sub stream 1: D1/VGA/CIF@ (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p/@(1–25/30 fps)	
	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 intelligent function distances, refer to installation and commissioning manual/project design tool.			sh persons nbers in this	Bit Rate Control	CBR/VBR	
				tallation and	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	

# Network PTZ Camera | DH-SDT3E410-8P-MB-A-PV1

Day/Night	Overview channel: Auto; Color; B/W; Detail channel: Auto; Color; B/W; Electronic		
BLC	Yes		
WDR	Overview channel: DWDR Detail channel: 120 dB		
HLC	Yes		
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		
Gain Control	Overview channel: Auto; manual; gain prio Detail channel: Auto; manual; gain prio		
Noise Reduction	Overview channel: 2D NR; 3D NR Detail channel: 2D NR; 3D NR		
Motion Detection	Yes		
Region of Interest (RoI)	Yes		
Image Stabilization	Overview channel: NA Detail channel: Electronic Image Stabilization (EIS)		
Defog	Overview channel: Electronic Detail channel: Electronic		
Digital Zoom	Overview channel: NA Detail channel: 16×		
Image Rotation	Overview channel: NA Detail channel: 180°		
S/N Ratio	Overview channel: ≥55dB Detail channel: ≥55dB		
Audio			
Audio Compression	Overview channel: PCM, G.711A, G.711Mu, G.726, MPEG2-Layer2, G.722.1, G.729; Detail channel: NA		
Network			
Network Port	RJ-45 (100 Base-T)		
Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; QoS; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTFRTSP; ARP		
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; SDK; P2P		
Streaming Method	Unicast/Multicast		
User/Host	20 (total bandwidth: 64 M)		
Storage	Micro SD card (512 GB); FTP/SFTP; NAS		
Browser	web5.0: 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/EN55035/IEC61000-3-2/IEC61000-3-3/ EN62368-1/IEC62471		
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 Input	1 (on-off value input: 0–5 VDC)	
Alarm Output	1 channel	
Alarm Linkage	Capture; recording; send email; preset; 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	12 VDC, 3 A ± 10% PoE+(802.3at)	
Power Consumption	Basic: 12 W; Max: 25 W (illuminator + heating glass + siren and light active deterrence + PTZ)	
Environment		
Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)	
Operating Humidity	≤95%	
Protection	TVS 6000 V lightning proof; IP66; surge protection; voltage transient protection	
Structure		
Product Dimensions	140.3 mm × 181.7 mm × 238.8 mm (5.52" × 7.15" × 9.40") (L × W × H)	

\*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.

2.17 kg (4.78 lb) 3.1 kg (6.83 lb)

Ordering Information							
Туре	Model	Description					
Network PTZ Camera	DH-SDT3E410-8P-MBA- PV1	8MP+4MP 10x Starlight TiOC Network Panoramic & PTZ Camera					
Accessories	PFB5310W	Wall Mount Bracket					
	DH-PFA121	Water-proof Junction Box					
	PFA7711	Mount Adapter					
	DH-PFB300C	Ceiling Mount Bracket					
	DH-PFB301C	Ceiling Mount Bracket					
	DH-PFA152-E	Pole Mount Bracket					
	DH-PFA156	Pole Mount Bracket					
	DH-PFA150	Pole Mount Bracket					

Net Weight

Gross Weight

## **Accessories**

## Included:



PFB5310W Wall Mount Bracket

# Optional:



DH-PFA121 Water-proof Junction Box



PFA7711 Mount Adapter



DH-PFB300C Ceiling Mount Bracket



DH-PFB301C Ceiling Mount Bracket

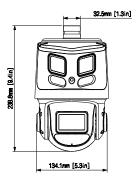


PFA152-E Pole Mount Bracket

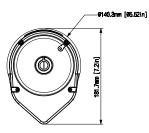


PFA156 Pole Mount Bracket

# Dimensions (mm[inch])









DH-PFA150 Pole Mount Bracket

Wall Mount	Ceiling Mount 1	Ceiling Mount 2
DH-PFB5310W + DH-PFA121	PFA7711 + DH-PFB300C	PFA7711 + DH-PFB301C
Pole Mount (Vertical) 1	Pole Mount (Vertical) 2	Pole Mount (Horizontal)
DH-PF85310W + DH-PFA121 + DH-PFA158	DH-PFB5310W + DH-PFA121 + DH-PFA152-E	PFA7711 + DH-PFB300C + DH-PFA150