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

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



- 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
- Warm light illumination distance up to 30 m
- Active deterrence
- Auto tracking Lite
- Perimeter protection
- Face detection
- SMD4.0
- IP66
- Smart dual light



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.

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.

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Technical Specification

Camera

Image Sensor	Overview channel: 1/2.8" CMOS; Detail channel: 1/2.8" CMOS
Pixel	Overview channel: 8 MP; Detail channel: 4 MP
Max. Resolution	Overview channel: 5376 (H) × 1520 (V); Detail channel: 2560 (H) × 1440 (V)
ROM	Overview channel: 4 GB; Detail channel: 4 GB
RAM	Overview channel: 2 GB; Detail channel: 1GB
Electronic Shutter Speed	Overview channel: 1 s–1/100,000 s; Detail channel: 1 s–1/30,000 s
Scanning System	Progressive
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)
Illumination Distance	Overview channel: 30 m (98.43 ft) (IR); 30 m (98.43 ft) (white light) Detail channel: 70 m (229.66 ft); 30 m (98.43 ft) (white light)
Illuminator On/Off Control	Overview channel: Manual; Auto; Off Detail channel: Zoom Prio; Manual; Auto; Off
Illuminator Number	Overview channel: 2 (IR light); 2 (white light); Detail channel: 2 (Dual light fusion); 2 (IR light)

Lens

Focal Length	Overview channel: 2.8 mm; Detail channel: 4 mm–40 mm
Max. Aperture	Overview channel: F1.6; Detail channel: F1.6-F3.6
Field of View	Overview channel: H: 180°; V: 47°; Detail channel: H: 58°–11.3°; V: 33.1°–6.4°; D: 66.4°–12.8°
Optical Zoom	Overview channel: NA; Detail channel: 10×
Focus Control	Auto; manual; semi-auto
Close Focus Distance	Overview channel: 0.6 m (1.97 ft); Detail channel: 0.1 m–0.5 m (0.33 ft–1.64 ft)
Iris Control	Overview channel: NA; Detail channel: NA

DORI Distance

Detect	Observe	Recognize	Identify
500 m (1640.42 ft)	197.5 m (647.97 ft)	100 m (328.08 ft)	50 m (164.04 ft)

*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 not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

PTZ

Pan/Tilt Range	Pan: 0° to 345°; Tilt: -10° to +90°
Manual Control Speed	Overview channel: NA; Detail channel: H: 0.1°–80°/s; V: 0.1°–50°/s
Preset Speed	H: 80°/s; V: 50°/s
Preset	300
Power-off Memory	Yes
Idle Motion	Preset

Intelligence

IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human/vehicle alarm classification; linkage tracking (only for people)
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.
SMD	SMD 4.0
SMD	Yes

Active Deterrence

Light Warning	Red and blue light warning; Flash duration: 5 s–30 s; Flash frequency: high, medium, low
Sound Warning	Offers 11 sound alarm and 10 custom sound alarms can be imported. Sound can be set from 0%–100%. Play times can be set from 1-10.

Video

Video Compression	H.264H; H.264B; Smart H.265+; H.265; Smart H.264+; H.264M; MJPEG (Sub Stream 1)
Streaming Capability	3 streams
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)
Video Frame Rate	Overview channel: Main stream: 5376 × 1520 @(1–25/30 fps) Sub stream 1: 1344 × 368/D1/VGA/CIF@ (1–25/30 fps) 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)
Bit Rate Control	CBR/VBR
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

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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; SMTP; RTSP; 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)
Net Weight	2.17 kg (4.78 lb)
Gross Weight	3.1 kg (6.83 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.

Ordering Information

Type	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

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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



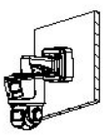
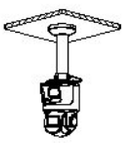
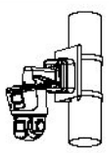
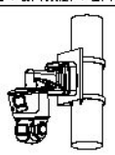
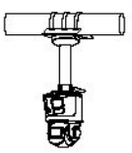
PFA152-E
Pole Mount Bracket



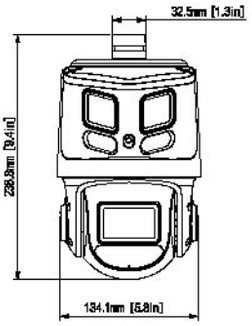
PFA156
Pole Mount Bracket

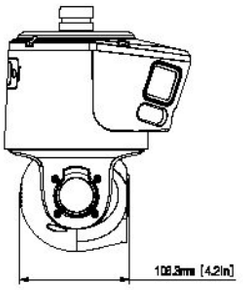


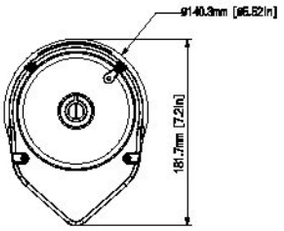
DH-PFA150
Pole Mount Bracket

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-PFB5310W + DH-PFA121 + DH-PFA156	DH-PFB5310W + DH-PFA121 + DH-PFA152-E	PFA7711 + DH-PFB300C + DH-PFA150
		

Dimensions (mm[inch])







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