

# DH-SDT5X225-2F-QA-0600

2MP Starlight IR WizMind Network Dual-PTZ Camera



Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

#### **System Overview**

2MP Starlight IR WizMind Network Dual-PTZ Camera adopts advanced CNN deep learning algorithms to support face recognition with high accuracy. The Dual 1080p Starlight Smart Capture Camera consists of panoramic camera and PTZ camera. Panoramic camera captures panoramas, and then PTZ camera takes detailed snapshots of objects and keeps tracking objects after rule violations occur. This camera possesses wide monitor range and PFA algorithm that can always present a clear, focused image while zooming.

#### **Functions**

### **Dual-PTZ System**

Both the panorama camera and detail camera of the Dual-PTZ system can be moved horizontally and vertically.

### **PFA Technology**

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

#### **Smart Tracking**

Automatically tracks moving targets, keeping them on the monitoring screen. With its flexible design, human, motor vehicle and non-motor vehicle targets can be set to be tracked. These parameters can also be combined. Targets are immediately tracked when detection rules (such as tripwire and intrusion) are triggered.

- · Dual PTZ system
- · 1/2.8" 2Megapixel CMOS
- · Powerful 25x optical zoom
- · Starlight technology
- · Max. 50/60 fps@1080p
- · Deep-learning-based auto tracking and perimeter protection
- · Support Hi-PoE
- · H.265 encoding
- · IP67













#### **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.

### Interoperability

The camera conforms to ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of the manufacturer.

Technical Specification				Panoramic:
Camera		Preset Speed	Pan: 240°/s; Tilt: 60°/s Detail: Pan: 430°/s; Tilt: 240°/s	
Image Sensor	Panoramic: 1/2.8" STARVIS™ CMOS Detail: 1/2.8" STARVIS™ CMOS		Preset	300
Pixel	Panoramic: 2 MP Detail: 2 MP		Tour	8 (up to 32 preset per tour)
Max. Resolution	Panoramic: 1920 (H) × 1080 (V)		Idle Motion	Preset; Tour; Scan
ROM	Detail: 1920 (H) × 1080 (V) 8 GB		PTZ Protocol	DH-SD Pelco-P/D (auto recognition)
RAM	4 GB		Intelligence	
Electronic Shutter Speed	Panoramic: 1/1 s–1/30,000 s Detail: 1/1 s–1/30,000 s		IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm
Scanning Mode	Progressive		Smart Tracking	classification
	Panoramic: Color: 0.005 lux@F1.6			
Min. Illumination Illumination	B/W: 0.0005 lux@F1.6 Detail: Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6		Video Video Compression	Smart H.265+; H.265; Smart H.264+; H.264B; H.264M; H.264H; MJPEG (Sub Stream 1)
	0 lux (IR light on)		Streaming Capability	3 Streams
Illumination Distance	Panoramic (white light): 30 m (98.43 ft) Detail (IR light): 100 m (328.08 ft) Panorama: Manual; Auto; Off	etail (IR light): 100 m (328.08 ft)		Panoramic: 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640
Illuminator On/Off Control	Detail: Zoom Prio; Manual; Auto; Off Panoramic: 4 white lights		Resolution	× 480); CIF (352 × 288/352 × 240) Detail: 1080p (1920 × 1080); 960p (1280 × 960);
Illuminator Number	Detail: 4 IR lights			720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Lens	Panoramic: 6 mm Detail: 4.8 mm—120 mm Panoramic: F1.6		Video Frame Rate	Panoramic: Main stream: 1080p/1.3M/720p (1–50/60 fps)
Focal Length  Max. Aperture				Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p (1–25/30 fps) Detail: Main stream: 1080p/1.3M/720p (1–50/60 fps)
·	Detail: F1.6–F3.5  Panoramic: H: 53.7; V: 28.7; D: 61.8			Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)
Field of View	Detail: H: 59.6°–4.8°; V: 35.4°–2.7°; D: 66.5°–5.5°		Bit Rate Control	CBR; VBR
Optical Zoom	25x		Video Bit Rate	H.264: 256 kbps–9472 kbps H.265: 144 kbps–5632 kbps
Focus Control	Auto; semi-auto; manual		Day/Night	Auto (ICR); Color; B/W
Close Focus Distance	Panoramic: 0.2 m (0.66 ft) Detail: 0.1 m–1.5 m (0.33 ft–4.92 ft)		BLC	Yes
Iris Control	Panoramic: Fixed Detail: Auto		WDR	Panoramic: 120 dB Detail:
	Detect Observe Recognize	Identify		120 dB
DORI Distance	Panoramic: Panoramic: Panoramic: 88.3 m 35.3 m 17.7 m (289.70 ft) (115.81 ft) (58.07 ft)	Panoramic: 8.8 m (28.87 ft) Detail: 161.4 m (529.53 ft)	HLC	Yes
	Detail: Detail: Detail: 1,613.8 m 645.5 m 322.8 m (5,294.62 ft) (2,117.78 ft) (1,059.06 ft)		White Balance	Panoramic: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp Detail: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
PTZ			Gain Control	Auto; manual
	Panoramic: Pan: 0° to 360° endless Tilt: 0° to 30° Detail: Pan: 0° to 305° Tilt: -10° to 90°		Noise Reduction	2D NR; 3D NR
Pan/Tilt Range			Motion Detection	Yes
			Region of Interest (RoI)	Yes
Manual Control Speed	Panoramic: Pan: 0.1°/s–100°/s Tilt: 0.1°/s–25°/s Detail: Pan: 0.1°/s–120°/s Tilt: 0.1°/s–50°/s		Defog	Yes
			Digital Zoom	16x
			Image Rotation	180°

## SDT5X Series | DH-SDT5X225-2F-QA-0600

SDT5X Series   DH	-SDT5X225-2F-QA-0600				
S/N Ratio	Panorama: ≥55 dB Detail: ≥55 dB				
Audio					
Audio Compression	G.711a; G.711Mu; G.722.1; G.726; MPEG2-Layer2; G.729				
Network					
Ethernet Port	RJ-45 (10/100 Base-T)				
Network Protocol	HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; RTMP; TCP				
Interoperability	ONVIF (Profile S&G&T); CGI				
Streaming Method	Unicast; Multicast				
User/Host	20 (total bandwidth: 64 M)				
Storage	FTP; Micro SD card (256 GB)				
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions				
Management Software	Smart PSS; DSS; NVR				
Certification					
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014				
Port					
Audio Input	1 channel				
Audio Output	1 channel				
Alarm I/O	2/1				
Audio I/O	1/1				
Alarm Linkage	Capture; preset; tour; SD card record; trigger on-off value output; client electronic map; send email				
Alarm Event	Video dynamic/occlusion detection; audio detection; network disconnection detection; IP conflict detection; encoder state detection; memory card state detection; memory space detection; abnormal power supply detection				
Power					
Power Supply	36 VDC, 2.23 A (-5% to +10%) HI-POE				
Power Consumption	Basic: 19 W Max.: 31 W (illuminator + PTZ working)				
Environment					
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)				
Operating Humidity	≤95%				
Protection	IP67; TVS 8000 V lightning proof; surge protection				
Structure					
Product Dimensions	385 mm × Φ277 mm (15.16" × Φ10.91")				
Net Weight	9 kg (19.84 lb)				
Gross Weight	13.8 kg (30.42 lb)				

Ordering Information					
Туре	Model	Description			
Dual-PTZ	DH-SDT5X225-2F- QA-0600	2MP Starlight IR WizMind Network Dual-PTZ Camera			
Accessories	DC36V/2.23A	Power Adapter			
	PFB306W-S	Wall Mount Bracket			
	PFA150	Pole Mount Bracket			
	PFB300C-S	Ceiling Mount Bracket			

## Accessories

## Included:





DC36V/2.23A Power Adapter

PFB306W-S Wall Mount Bracket

## Optional:





PFA150 Pole Mount Bracket

PFB300C-S Ceiling Mount Bracket

Wall Mount	Ceiling Mount	Pole Mount(Vertical)
PFB306W—S	PFB300C-S	PFB306W-S+PFA150
Corner Mount	Pole Mount(Horizontal)	
PFB306W-S+PFA151	PFB300C=S+PFA150	

## Dimensions (mm[inch])

