

DH-SDT5X405-4F-QA-0600

4MP Starlight+ IR WizMind Network Dual-PTZ Camera





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

System Overview

Dahua PTZ WizMind network camera adopts advanced CNN deep learning algorithms to support face recogniton with high accuracy. The Dual 4MP Starlight Smart Capture Camera consists of panorama camera and PTZ camera. Panorama camera captures panoramas, and then PTZ camera takes detailed snapshots of objects and keeps tracking objects afer rule violatons occur. This camera possess wide monitor range and PFA algorithm that can always present a clear, focused image while zooming.

Functions

Dual-PTZ System

Panorama camera and Detail camera of the Dual-PTZ system system can be adjusted horizontally and vertcally.

Face Recognition

Once facial features are extracted from captured faces, they are stored in a database where they can be easily searched and compared against other images. Once a successful match is found, the system outputs the result. The Dahua Face Recogniton camera supports a built-in database that stores up to 10,000 facial images, helping the camera achieve realtme face capture and comparison.

Starlight+ Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.001 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

- · Dual PTZ system, dual vari-focal lens
- · 1/1.8" 4Megapixel CMOS
- · Powerful 5x optical zoom
- · Starlight technology
- · Max. 25/30 fps@4M
- · Deep-learning-based auto tracking and perimeter protection
- · Support Hi-PoE
- · H.265 Encoding
- · IP67















PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms.

PFA ensures clarity of the image throughout the process of zooming and shortens focus tme. The realization of PFA technology substantally improves user experience and increases product value.

Metadata

Metadata is feature atribute informaton extracted from a target object which can be used for data retrieval. There are four kinds of metadata supported by Dahua PTZ WizMind camera: human face, human body, motor vehicle and non-motor vehicle metadata. Facial informaton includes gender, age, glasses, masks, beards, etc. Human body informaton includes hat, top, top color, botom, botom color, bag, etc. Motor vehicle informaton includes plate color, type, vehicle color, sunshield, ornament, calling, seatbelt, smoking, annual inspecton stcker, etc. Non-motor vehicle informaton includes type, color, top type, top color, people number, etc.

Smart tracking

Human, motor vehicle, and non-motor vehicle, or their combinatons can be set as objects. Once the objects selected trigger detecton rules (like tripwire and intrusion), the detail camera will track them automatcally.

Perimeter Protecton

Automatcally filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recogniton for the targets. Improving alarm accuracy.

Interoperability

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

Technical Specification	1				Tour	8 (up to 32 presets per tour)
Camera					Scan	5
Image Sensor	Panorama: 1, Detail: 1/1.8"				Power-off Memory	Yes
Pixel	Panorama: 4				Idle Motion	Preset; Scan; Tour
	Detail: 4 MP Panorama: 20	688 (H) × 1520	(V)		PTZ Protocol	DH-SD Pelco-P/D (auto recognition)
Max. Resolution		(H) × 1520 (V)			Intelligence	
ROM	8 GB 4 GB				Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes
RAM Electronic Shutter Speed	Panorama: 1	s-1/30,000 s				extraction. Tripwire; intrusion; crossing fence detection; loitering
Scanning System	Detail: 1 s–1/ Progressive	'30,000 s			IVS (Perimeter Protection)	detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking
0.,	Panorama:				Face Recognition	Yes
	Color: 0.0005 B/W: 0.0005				Video	
Min. Illumination	Detail: Color: 0.001 B/W: 0.0001	lux@F1.3			Video Compression	H.264H; H.264B; Smart H.265+; H.265; MJPEG(Sub Stream); Smart H.264+; H.264M
	0 lux (IR light Panorama (w				Streaming Capability	3 streams
Illumination Distance	30 m (98.43 f Detail (IR ligh 100 m (328.0	ft) t):	Off		Resolution	Panorama: 4M (2688 × 1520); 4M (2560 × 1440); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)
Illuminator On/Off Control Illuminator Number		Prio; Manual; white lights				Detail: 4M (2688 × 1520); 4M (2560 × 1440); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576); VGA (640× 480); CIF (352 × 288)
Lens	Detail. 4 IIV IIE	3111.3				Panoramic: Main stream: 4M/1080p/1.3M/720p (1–25/30 fps)
Focal Length	Panorama: 6 Detail: 10 mn				Video Frame Rate	Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p/CIF (1–25/30 fps) Detail: Main stream: 4M/1080p/1.3M/720p (1–25/30 fps)
Max. Aperture	Panorama: F1 Detail: F1.3–I					Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p/CIF (1–25/30 fps)
Field of View		: 57°; V: 31°; D: –10°; V: 26°–5.		5°	Bit Rate Control	CBR; VBR
Optical Zoom	5×				Video Bit Rate	H.264: 512 Kbps–13056 Kbps H.265: 204 Kbps–7936 Kbps
Focus Control	Auto; Semi-A				Day/Night	Panorama: Color/B/W Detail: Auto (ICR)
Close Focus Distance	Panorama: 0. Detail: 0.5 m	.2 m (0.66 ft) –3 m (1.64 ft–9	9.84 ft)		BLC	Yes
Iris Control	Panorama: Fi	ixed Detail: Au	ito		WDR	Panorama: 120 dB Detail: 120 dB
	Detect	Observe	Recognize	Identify	HLC	Yes
DORI Distance	Panorama: 110 m (360.89 ft) Detail: 648 m	Panorama: 44 m (144.36 ft) Detail: 259 m	Panorama: 21.7 m (83.33 ft) Detail: 130 m	Panorama: 10.3 m (40.03 ft) Detail: 64.7 m	White Balance	Panorama: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp Detail: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
0.77	(2,125.98 ft)	(849.74 ft)	(426.51 ft)	(212.27 ft)	Gain Control	Auto; Manual
PTZ	Panorama:				Noise Reduction	2D NR; 3D NR
Day (Tilk Day on		0° to 360° endless Motion Detection 0° to 30°	Yes			
Pan/Tilt Range	Detail: Pan: 0° to 305°				Region of Interest (RoI)	Yes
	Tilt: –10° to 9	00° an: 0.1°/s–100°	°/s: Tilt: 0 1°/s-	-25°/s	Defog	Electronic
Manual Control Speed	Detail: Pan: 0	0.1°/s-400°/s; T	Tilt: 0.1°/s-200		Digital Zoom	16×
Preset Speed		an: 100°/s; Tilt 60°/s; Tilt: 200			Image Rotation	180°
Preset	300				S/N Ratio	Panorama: ≥ 55 dB Detail: ≥ 55 dB

Audio			
Audio Compression	G.711a; G.711mu; G.726; MPEG2-Layer2; G.722.1; G.729; G723		
Network			
Network Port	RJ-45 (10/100 Base-T)		
Network Protocol	TCP; FTP; RTMP; IPv6; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; DDNS; UPnP; ICMP; UDP; IGMP; HTTP; DHCP; SMTP; SNMP v1/v2c/v3 (MIB-2); QoS; RTSP; ARP		
Interoperability	CGI; ONVIF Profile S&G&T GB/T28181		
Streaming Method	Unicast; Multicast		
User/Host	20 (total bandwidth: 64 M)		
Storage	FTP; Micro SD card (512 GB)		
Browser	IE9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions		
Management Software	DSS; NVR; Smart PSS		
Mobile Client	iOS; Android		
Port			
Audio Input	1 channel (LINE IN, bare wire)		
Audio Output	1 channel (LINE OUT,bare wire)		
Two-way Audio	Yes		
Alarm Linkage	Capture; preset; tour; recordings on SD card; alarm digital input; send email		
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; illegal access		
Alarm I/O	2/1		
Audio I/O	1/1		
Power			
Power Supply	36 VDC, 2.23 A (± 25%) Hi-PoE		
Power Consumption	Basic: 21 W Max.: 40 W (PTZ, zoom, focus, IR light, white light, and smart plan enabled)		
Environment			
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)		
Operating Humidity	≤ 95% (RH)		
Protection	IP67; TVS 8000 V lightning protection; surge protection; voltage transient 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 Camera	DH-SDT5X405-4F- QA-0600	4MP 5 Ordinary IR Network PTZ Camera			
Accessories	36 VDC/2.23A	Power Adapter			
	PFB306W-S	Wall Mount Bracket			
	PFA150	Pole Mount Bracket			
	PFB300C-S	Ceiling Mount Bracket			

Accessories

Included:





36 VDC/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])

