

DH-SDT5X405-4F-QA-0600

4MP Starlight+ IR WizMind Network Dual-PTZ Camera



Wiz Mind

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

The multi-sensor series blends the functions of panoramic and detail cameras into its powerful design. Both the panoramic and detail cameras of this model can freely rotate on their domes to track multiple targets in a scene from different angles while keeping an eye on the monitored area. The panoramic camera is used in intelligent detection, and the detail camera is for auto-tracking. They also harness the strength of their embedded AI chips to perform a wide variety of intelligent functions, making them ideal for use in many scenarios.

Functions

Dual-PTZ System

Both the Panorama camera and Detail camera of the Dual-PTZ system can be moved horizontally and vertically.

Face Recognition

Face attributes are extracted from captured faces, and stored in a database where they can be conveniently searched for and compared against other images. Once a successful match is found, the system outputs the result. The Dahua Face Recognition camera supports a built-in database that stores up to 10,000 face images, allowing the camera to capture and compare face images in real time.

Starlight+ Technology

For challenging low-light conditions, Dahua's Starlight Ultra-low Light Technology offers the best in light sensitivity, capturing color in vivid detail, even in lighting as low as 0.001 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

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



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.

Video Metadata

Metadata is information on the attributes of targets that is extracted during monitoring. It can be used for data retrieval. There are four kinds of metadata supported by Dahua PTZ WizMind cameras: Human face, human body, motor vehicle and non-motor vehicle. Face information includes gender, age, glasses, masks, beards, and more. Human body information includes hat, top, top color, bottom, bottom color, bag, and more. Motor vehicle information includes plate color, type, vehicle color, sunshield, ornament, calling, seatbelt, smoking, annual inspection sticker, and more. Non-motor vehicle information includes type, color, top type, top color, people number, and more.

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 tripewire and intrusion) are triggered.

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.

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Technical Specification Camera Panorama: 1/1.8" CMOS Image Sensor Detail: 1/1.8" CMOS Panorama: 4 MP Pixel Detail: 4 MP Panorama: 2688 (H) × 1520 (V) Max. Resolution Detail: 2688 (H) × 1520 (V) ROM 8 GB 4 GB RAM Panorama: 1/1 s-1/30,000 s **Electronic Shutter Speed** Detail: 1/1 s-1/30,000 s Progressive Scanning System Panorama: Color: 0.0005 lux@F1.0 B/W: 0.0005 lux@F1.0 Detail: Min. Illumination Color: 0.001 lux@F1.3 B/W: 0.0001 lux@F1.3 0 lux (IR light on) Panorama (white light): 30 m (98.43 ft) Illumination Distance Detail (IR light): 100 m (328.08 ft) Panorama: Manual; Auto; Off Illuminator On/Off Control Detail: Zoom Prio; Manual; Auto; Off Panorama: 4 white lights Illuminator Number Detail: 4 IR lights Lens Panorama: 6 mm Focal Length Detail: 10 mm-50 mm Panorama: F1.0 Max. Aperture Detail: F1.3-F1.5 Panorama: H: 57°; V: 31°; D: 66° Field of View Detail: H: 45°–10°; V: 26°–5.7°; D: 51°–11.5° **Optical Zoom** 5× **Focus Control** Auto; semi-auto; manual Panorama: 0.2 m (0.66 ft) Close Focus Distance Detail: 0.5 m-3 m (1.64 ft-9.84 ft) Iris Control Panorama: Fixed Detail: Auto Detect Observe Recognize Identify Panorama: Panorama: Panorama: Panorama: 110 m 44 m 21.7 m 10.3 m **DORI** Distance (360.89 ft) (144.36 ft) (71.19 ft) (33.79 ft) Detail: Detail: Detail: Detail: 648 m 259 m 130 m 64.7 m (2,125.98 ft) (849.74 ft) (426.51 ft) (212.27 ft) PTZ Panorama: Pan: 0° to 360° endless Tilt: 0° to 30° Pan/Tilt Range

Detail: Pan: 0° to 305° Tilt: -10° to +90° Panorama: Pan: 0.1°/s-100°/s Tilt: 0.1°/s-25°/s

Detail: Pan: 0.1°/s-400°/s Tilt: 0.1°/s-200°/s

Manual Control Speed

Preset Speed	Panorama: Pan: 100°/s; Tilt: 50°/s Detail: Pan: 360°/s; Tilt: 200°/s	
Preset	300	
Tour	8 (up to 32 presets per tour)	
Scan	5	
Power-off Memory	Yes	
Idle Motion	Preset; Scan; Tour	
PTZ Protocol	DH-SD Pelco-P/D (auto recognition)	
Intelligence		
Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction.	
IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	
Face Recognition	Yes	
Video		
Video Compression	H.264H; H.264B; Smart H.265+; H.265; MJPEG (Sub Stream 1); Smart H.264+; H.264M	
Streaming Capability	3 streams	
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) 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)	
Video Frame Rate	Panoramic: Main stream: 4M/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/CIF (1–25/30 fps) Detail: Main stream: 4M/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/CIF (1–25/30 fps)	
Bit Rate Control	CBR; VBR	
Video Bit Rate	H.264: 512 kbps–13056 kbps H.265: 204 kbps–7936 kbps	
Day/Night	Panorama: Color; B/W Detail: Auto (ICR)	
BLC	Yes	
WDR	Panorama: 120 dB Detail: 120 dB	
HLC	Yes	
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	
Gain Control	Auto; manual	
Noise Reduction	2D NR; 3D NR	
Motion Detection	Yes	
Region of Interest (RoI)	Yes	
Defog	Electronic	

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Digital Zoom	16×	
Image Rotation	180°	
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; UPPP; ICMP; UDP; IGMP; HTTP; DHCP; SMTP; SNMP v1/v2c/v3 (MIB-2); QoS; RTSP; ARP	
Interoperability	ONVIF (Profile S&G&T); GB/T28181; CGI	
Streaming Method	Unicast; Multicast	
User/Host	20 (total bandwidth: 64 M)	
Storage	FTP; Micro SD card (512 GB)	
Browser	IE 9 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)	
Alarm I/O	2/1	
Audio I/O	1/1	
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	
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 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:





PFB306W-S

Wall Mount Bracket

DC36V/2.23A Power Adapter

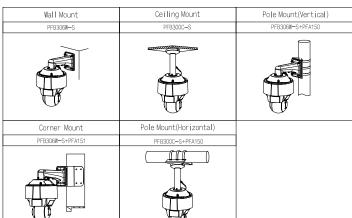
Optional:



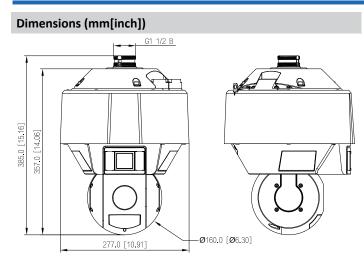


PFA150 Pole Mount Bracket

PFB300C-S Ceiling Mount Bracket



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