DH-SDT5X225-2F-WA-0600

2MP Starlight IR WizMind Network Dual-PTZ Camera

WizMind

· 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

H.265	WDR	ICR D/N	0.005Lux	IP67	

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 Dual 2M Starlight Hunter Camera consists of panoramic camera and PTZ camera. Panoramic camera captures panoramas, and then detail camera takes detailed snapshots of objects and keeps tracking objects after rule violations occur. This camera possess wide monitor range and PFA algorithm that can always present a clear, focused image while zooming.

Functions

Dual-PTZ System
Panoramic camera and detail camera of the Dual-PTZ system can be adjusted horizontally and vertically.

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 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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 time. The realization of PFA technology substantially improves user experience and increases product value.

Smart Tracking
Human, motor vehicle, and non-motor vehicle, or their combinations can be set as objects. Once the objects selected trigger detection rules (like tripwire and intrusion), the detail camera will track them automatically.

Perimeter Protection
Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition 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

Camera

Image Sensor	Panoramic: 1/2.8" CMOS Detail: 1/2.8" CMOS
Pixel	Panoramic: 2MP Detail: 2MP
Max. Resolution	Panoramic: 1920 (H) × 1080 (V) Detail: 1920 (H) × 1080 (V)
ROM	8 GB
RAM	2 GB
Electronic Shutter Speed	Panoramic: 1/3 s–1/100,000 s Detail: 1/1 s–1/100,000 s
Scanning System	Progressive
Min. Illumination	Panoramic: Color: 0.005lux@F1.6 B/W: 0.0005lux@F1.6 Detail: Color: 0.005lux@F1.6 B/W: 0.0005lux@F1.6 0Lux (IR light on)
Illumination Distance	Panoramic (white light): 30 m (98.43 ft) Detail (IR light): 100 m (328.08 ft)
Illuminator On/Off Control	Panoramic: SmartIR/Manual/Off Detail: Zoom Prio/Manual/SmartIR/Off
Illuminator Number	Panoramic: 4 white lights Detail: 4 IR lights

Lens

Focal Length	Panoramic: 6 mm (0.24") Detail: 4.8 mm–120 mm (0.19"–4.72")
Max. Aperture	Panoramic: F1.6 Detail: F1.6–F3.5
Field of View	Panoramic: H: 53.7; V: 28.7; D: 61.8 Detail: H: 59.6°–4.8°; V: 35.4°–2.7°; D: 66.5°–5.5°
Optical Zoom	25x
Focus Control	Auto/Semi-Auto/Manual
Close Focus Distance	Panoramic: 0.2 m (0.66 ft) Detail: 0.1 m–1.5 m (0.33 ft–4.92 ft)
Iris Control	Panoramic: Fixed Detail: Auto

DORI Distance	Detect	Observe	Recognize	Identify
	Panoramic: 88.3 m (289.70 ft) Detail: 1613.8 m (5294.62 ft)	Panoramic: 35.3 m (115.81 ft) Detail: 645.5 m (2117.78 ft)	Panoramic: 17.7 m (58.07 ft) Detail: 322.8 m (1059.06 ft)	Panoramic: 8.8 m (28.87 ft) Detail: 161.4 m (529.53 ft)

PTZ

Pan/Tilt Range	Panoramic: Pan: 0°–360° endless; Tilt: 0°–30° Detail: Pan: 0°–250°; Tilt: -10°–90°
Manual Control Speed	Panoramic: Pan: 7°/s–117°/s; Tilt: 3°/s–25°/s Detail: Pan: 1.8°/s–131°/s; Tilt: 0.5°/s–65°/s
Preset Speed	Panoramic: Pan: 242°/s; Tilt: 58°/s Detail: Pan: 430°/s; Tilt: 243°/s
Presets	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off Memory	Support
Idle Motion	Preset/Tour/Pattern/Scanning
Protocol	DH-SD Pelco-P/D (auto recognition)

Artificial Intelligence

Perimeter Protection	Tripwire, intrusion, abandoned object, and missing object . Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
Smart Tracking	Support

Video

Compression	H.265; H.264BaselineProfile; H.264MainProfile; H.264HighProfile; M-JPEG; smart H.265; smart H.264
Streaming Capability	3 streams
Resolution	Panoramic: 1080P (1920 × 1080); 960P (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240) Detail: 1080P (1920 × 1080); 960P (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Frame Rate	Main stream: 1080P/1.3M/720P (1–50/60 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080P/1.3M/720P/CIF (1–25/30 fps)
Bit Rate Control	Variable/Constant
Bit Rate	H.264: 1792 Kbps–9216 Kbps H.265: 512 Kbps–5632 Kbps
Day/Night	Panoramic: Auto (ICR) Detail: Auto (ICR)
BLC	Support
WDR	Panoramic: 120dB Detail: 120dB
HLC	Support
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
Gain Control	Auto/Manual
Noise Reduction	2D/3D
Motion Detection	Support
Region of Interest (RoI)	Support
Image Stabilization	Electronic
Defog	Digital
Digital Zoom	16x
Flip	0°/180°

Audio

Compression	G.711a; G.711mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729

Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; SNMPv1/v2c/v3 (MIB-2); RTCP
Interoperability	ONVIF Profile S&G&T; CGI
Streaming Method	Unicast/Multicast
User/Host	20 (Total bandwidth 64M)
Storage	P2P; FTP; Micro SD (256G)
Browser	IE7 and later versions Chrome 45 and earlier versions Firefox 52 and earlier versions Safari 12 and earlier versions
Management Software	SmartPSS; DSS; NVR

Certifications

Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4-2014

Port

Audio Input	1 (LINE IN bare wire)
Audio Output	1 (LINE OUT bare wire)
Alarm I/O	2/1 Digital input: 0–5V DC

Power

Power Supply	DC36V/2.23A±25% Hi-PoE
Power Consumption	Basic: 21W Max.: 40W (PTZ, zoom, focus, IR light, white light, and smart plan enabled)

Environment

Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Humidity	≤95%
Protection	IP67; TVS 8000V lightning protection; surge protection

Structure

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

Type	Model	Description
2MP WizMind PTZ camera	DH-SDT5X225-2F-WA-0600	2MP Starlight IR WizMind Network Dual-PTZ Camera, PAL
	DH-SDT5X225N-2FWA-0600	2MP Starlight IR WizMind Network Dual-PTZ Camera
	SDT5X225-2F-WA-0600	2MP Starlight IR WizMind Network Dual-PTZ Camera, PAL
	SDT5X225N-2F-WA-0600	2MP Starlight IR WizMind Network Dual-PTZ Camera, NTSC

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
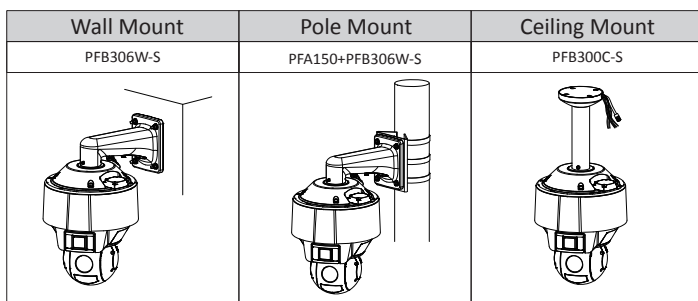Power Adapter

PFB306W-S
Wall Mount Bracket

Optional:

PFA150
Pole Mount Bracket

PFB300C-S
Ceiling Mount Bracket

Wall Mount	Pole Mount	Ceiling Mount
PFB306W-S	PFA150+PFB306W-S	PFB300C-S

Dimensions (mm[inch])

G1 1/2 B

385.0mm [15.16in]
357.0mm [14.06in]

Φ277.0mm [Φ10.911in]   Φ160.0mm [Φ6.30in]