

DH-PSDW81642S-A360-D425

8x2MP Multi-Sensor Panoramic + PTZ WizMind Network Camera



WizMind

- Panoramic: Eight 1/1.8" 2 Megapixel progressive scan CMOS
- PTZ: One 1/1.8" 4 Megapixel progressive scan CMOS
- Support 360-degree panoramic view
- Starlight+ technology
- Support Smart H265+/H264+ encoding
- Day/Night (ICR); 3D NR; AWB; AGC; BLC
- IR distance up to 100 m
- Smart tracking
- Tripwire
- Intrusion
- Mic/Speak
- Two-way-talk



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.

Series Overview

Starlight panoramic HD network camera, with all-in-one design, provides a 360°panorama and region of interest details at the same time. The panoramic network combines 8 sensors working in tandem to realize 360°panoramic surveillance; all-in-one module and high-speed PTZ camera provides the function of quick position details. In addition, with video analytic algorithm and multi-target track algorithm, the camera can automatically or manually detect tripwire and intrusion of mutiple targets in detection area, output alarm signal, and then link PTZ for smart tracking. With these excellent features, the camera can meet higher security requirements.

Functions

True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens.

Starlight Technology

Featured with Dahua Starlight Technology, the camera is ideal for applications with challenging light conditions. Its low light performance delivers usable video with minimal ambient light. Even in extreme low light conditions, Starlight Technology is capable of delivering color images in nearly complete darkness.

Smart tracking

1. Panoramic channel supports manual position, frame selection zoom position.
2. Manual track.
3. Auto track after tripwire and intrusion are triggered.

Tripwire detection and intrusion detection

With advanced CNN algorithm, the detection distance, and the accuracy rate and timely rate of linkage track are much improved.

Technical Specification						AI Coding		AI H.265;AI H.264	
Camera						Video Frame Rate		Panoramic network camera: Main stream(8192×1800@1~30fps), Sub Stream(2048×452@1~30fps), Third Stream(3840×832@~30fps) PTZ camera: Main stream(2688×1520@1~30fps), Sub Stream(704×480@1~30fps), Third Stream(1920×1080@1~30fps)	
Image Sensor		Panoramic network camera: 1/1.8”CMOS PTZ camera: 1/1.8”CMOS							
Max. resolution		Panoramic network camera: 8192×1800 PTZ camera: 2560×1440							
ROM		Panoramic network camera:4GB PTZ camera:4GB							
RAM		Panoramic network camera:4GB PTZ camera:1GB				Stream Capability		3 Streams	
Electronic Shutter Speed		Panoramic network camera: 1/3 s-1/100000 s, manual or auto adjust PTZ Camera: 1/1 s-1/300000 s, manual or auto adjust				Resolution		Panoramic network camera: Main stream: 8192×1800;7680×1680;5760×1264;4096×900 Sub Stream:2048×452 Third Stream:3840×832;2560×560 PTZ camera: Main stream: 2560×1440;1920×1080;1280×960;1280×720 Sub Stream:704×576;352×288 Third Stream:1920×1080;1280×960;1280×720	
Min. Illumination		Panoramic network camera: 0.001Lux(colour);0.0001Lux(black); PTZ camera: 0.001Lux(colour);0.0001Lux(black);0Lux(IR on)							
S/N Ratio		Panoramic network camera:51db PTZ camera:51.5db				Bit Rate Control		Panoramic network camera: CBR/VBR PTZ camera:CBR/VBR	
IR Distance		Panoramic network camera: — PTZ camera: ≥ 100 m (328ft) (IR on)				Video Bit Rate		Panoramic network camera: H.264:3584kbps ~18176Kb/S H.265:1280kbps ~11008 Kb/S PTZ camera: H.264:2816Kbps ~ 13056Kbps H.265:1024Kbps ~ 7936Kbps	
IR On/Off Control		Auto/Manual/Zoomprio							
IR LEDs Number		Panoramic network camera: — PTZ camera: 4				Day/Night		Auto (ICR)/Color/B/W	
Lens						BLC		Yes	
Lens Type		Panoramic network camera:Fixed-focal PTZ camera:Motorized vari-focal				HLC		Yes	
Mount Type		Panoramic network camera:M16 PTZ camera: Core interface				WDR		Panoramic network camera:DWDR PTZ camera: WDR (120 dB)	
Focal Length		Panoramic network camera 2.8 mm PTZ camera: 5.4mm~135mm, 25x optical zoom				White Balance		Panoramic network camera:Auto/Natural/street lamp/outdoor/manual/regional Custom PTZ camera: Auto/indoor/outdoor/tracking/ manual/sodium lamp/natural/street lamp	
Max. Aperture		Panoramic network camera: F1.0 PTZ camera: F1.6~F4.0							
Field of View		Panoramic network camera:Horizontal: 360° Vertical: 85° PTZ camera: Horizontal:3.5°~58° Vertical: 2°~35° Diagonal: 2°~64°				Gain Control		Auto/Manual	
Iris Type		Panoramic network camera: Fixed aperture PTZ camera: Auto				Noise Reduction		3D NR	
Close Focus Distance		Panoramic network camera: 1.4m(4.6ft) PTZ camera:0.5m~7m(1.64ft~22.96ft)				Motion Detection		Disable/Enable	
DORI Distance		Detect	Observe	Reconize	Identify	Region of Interest (Rol)		Yes (4 areas)	
	Panoramic network camera	57.9m (189.96ft)	23.2m (76.11ft)	11.6m (38.05ft)	5.8m (19.02ft)	Electronic Image stabilization(EIS)		Panoramic network camera: — PTZ camera: Yes	
	PTZ camera	1688m (5538.05ft)	675m (2214.56ft)	337m (1105.64)	168m (551.18ft)	Smart IR		Panoramic network camera: — PTZ camera: Yes (Adjusted by user.)	
Smart Event						Defog		Panoramic network camera: — PTZ camera: Yes	
IVS		Panoramic network camera: Intrusion, tripwire PTZ camera:Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.				Image Rotation		0°/180°(PTZ camera)	
Video						Privacy masking		Panoramic network camera: 4 areas PTZ camera: 8 areas	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG				Audio			
Smart Codec		Smart H.264+ Smart H.265+				Audio Compression		PCM/G.711A/G.711Mu/G.726/AAC/G.723	
						Network			
						Network		RJ-45 (10/100/1000 Base-T)	
						Protocol		IPv4;IPv6;HTTP;HTTPS;TCP; UDP;ARP;RTP ; RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS; QoS;UPnP;NTP;Multicast;ICMP;IGMP;NFS;SAMBA;P PPoE;802.1x;SNMP	
						Interoperability		ONVIF (Profile S/Profile G); CGI; Milestone	
						User/Host		9 (Total bandwidth: 176M)	

Edge Storage	Micro SD card (support max. 512GB);FTP;SFTP;NFS;SMB
Management Software	DSS
PTZ Dome	
Pan Range	Pan: 0° to 360° endless Tilt: -10° to 90°, auto flip 180
Manual Control Speed	Pan: 120°/s Tilt: 50°/s
Positioning Accuracy	Pan: 0.1° Tilt: 0.1°
Remote Lens Reset	Yes
Preset	300
Tour	8 Tour (up to 32 preset per tour)
Pattern	5 patterns
Scan	5
Power-off Memory	Yes
Idle Motion	Preset/Pattern/Tour/Scan
Time Task	Yes
Three-dimensional Positioning	Yes
PTZ Limit	Yes
Position Display	Yes
Information Display	Yes
Time Display	Yes
Port	
Audio Input	2 channels (terminal)
Audio Output	1 channels (terminal)
Alarm Input	3 channels in: 5mA 3V-5V DC
Alarm Output	2 channels out: 1,000mA 30V DC/500mA 50V DC
Power	
Power Supply	DC36V (±50%)
Power Consumption	Basic: 35 W (36V DC) Max. (Basic power consumption + WDR + intelligence on + IR on + PTZ operation): 45 W (36V DC)
Environment	
Operating Temperature	-40°C to +60°C (-104°F to +140°F)
Operating Humidity	≤95%
Storage Temperature	-40°C to +70°C (-104°F to +158°F)/Less than 95% RH
Ingress Protection	IP67
Structure	
Enclosure	Metal + Plastic
Product Dimensions	Φ280mm × 326 mm (Φ11" × 12.8")
Packaging Dimensions	394mm×352mm×468mm(15.5"×13.9"×18.4")
Net Weight	7kg (15.43 lb)
Gross Weight	10.4kg (22.93 lb)

Ordering Information

Type	Part Number	Description
Panoramic + PTZ camera	DH-PSDW81643S-A360-D425	8 × 2MP Multi-Sensor Panoramic + PTZ WizMind Network Camera
	DH-PSDW8843S-A180-D425	4 × 2MP Multi-Sensor Panoramic + PTZ WizMind Network Camera
Accessories	DH-PFB300C-S	Hang-mounted bracket
	DH-PFB303W-SG	Wall-mounted bracket
	DH-PFA150-SG DH-PFB300C-S	Pole-mounted bracket(Horizontal)
	DH-PFA150-SG DH-PFB303W-SG	Pole-mounted bracket(Vertical)
	DH-PFA151 DH-PFB303W-SG	Corner-mounted bracket

Accessories

Included:



36V DC/5A
Power Adapter

Optional:



DH-PFB303W-SG
Wall-mounted/Pole-mounted/Corner-mounted
bracket



DH-PFB300C-S
Hang-mounted/Pole-mounted
bracket



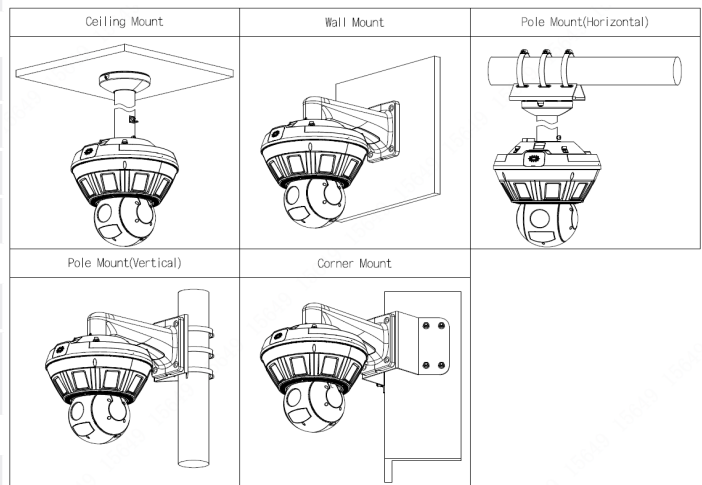
DH-PFA150-SG
Pole-mounted bracket



DH-PFA151
Corner-mounted bracket



TF-P100
TLC SD Card



Dimensions (mm[inch])

mm [inch]

