

DH-SD8A250WA-HNF

2MP 50x Starlight IR OIS WizMind AI Network PTZ Camera



- · 1/2.8" 2Megapixel CMOS
- · Powerful 50x optical zoom
- · IR distance up to 500m
- · Support face recognition
- Deep-learning-based auto tracking and perimeter protection
- · Support metadata
- · Support Hi-PoE
- · Smart Wiper
- · 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

Dahua PTZ AI network camera adopts advanced CNN deep learning algorithms to support face recognition with high accuracy. This camera possess wide monitor range, PFA algorithm that can always present a clear, focused image while zooming, and smart wiper technology that supported by RainSensor.

Functions

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 Recognition camera supports a built-in database that stores up to 10,000 facial images, helping the camera achieve realtime face capture and comparison.

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.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. There are four kinds of metadata supported by Dahua PTZ AI camera: human face, human body, motor vehicle and non-motor vehicle metadata. Facial information includes gender, age, glasses, masks, beards, etc. Human body information includes hat, top type, top color, bottom type, bottom color, backpacks, etc. Motor vehicle information includes car color and car type, etc. Nonmotor vehicle information includes car type, car color, top type, top color, people number etc.

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.

Protection

The camera allows for $\pm 25\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 8KV lightning rating provides effective protection for both the camera and its structure against lightning.

Interoperability

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



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Technical Specification

Camera			
Image Sensor	1/2.8" STARVIS™ CMOS		
Pixels	2 MP		
Max. Resolution	1920(H) x 1080(V)		
Scanning System	Progressive		
Electronic Shutter Speed	1/1s~1/30,000s		
Minimum Illumination	Color: 0.05Lux@F1.8; B/W: 0.005Lux@F1.8; 0Lux@F1.8 (IR on)		
Illumination Distance	Distance up to 500m (1640ft)		
Illumination On/Off Control	Auto/Manual		
Illumination Number	10		
Smart Wiper	Support		
Lens			
Focal Length	6.6mm~330mm		
Max. Aperture	F1.8~ F6.5		
Angle of View	H: 41.3° ~ 1.1°; V: 23.6° ~0.6° ; D: 47.4° ~1.3°		
Optical Zoom	50x		
Focus Control	Auto/Manual		
Iris Control	Auto/Manual		
Close Focus Distance	100mm~ 1000mm		
DORI Distance			
Detect Observe	Recognize Identify		
4137m(13573ft) 1655m(5430	ft) 827m(2713ft) 413m(1355ft)		
РТΖ			
Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -30° ~ 90°,auto flip 180°		
Manual Control Speed	Pan: 0.1° ~240° /s; Tilt: 0.1° ~100° /s		
Preset Speed	Pan: 240° /s; Tilt: 120° /s		
Presets	300		
PTZ Mode	5 Pattern, 8 Tour(up to 32 preset per tour), Auto Pan, 5 Auto Scan		
Speed Setup	Human-oriented focal Length/ speed adaptation		
Power up Action	Auto restore to previous PTZ and lens status after power failure		
Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		
Protocol	DH-SD, Pelco-P/D (Auto recognition)		
Artificial Intelligence			
Auto Tracking	Support		
Face Recogntion	Support		
Perimeter Protection	Tripwire, Intrusion. Support alarm triggering by target types(human and vehicle) Filtering out false alarms caused by animals, rustling leaves, bright lights, etc		

Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction
General Intelligence	
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly
General Intelligence	Object Abandoned/Missing
Video	
Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)
Streaming Capability	3 Streams
Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280× 720)/D1(704×576/704×480)/CIF(352×288/352×240)
	Main stream: 1080P/1.3M/720P(1~50/60fps)
Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
	Sub stream2: 1080P/1.3M/720P(1 ~ 25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.265/H.264: 32K ~ 8192Kbps
Day/Night	Auto(ICR) / Color / B/W
Backlight Compensation	BLC / HLC / WDR(120dB)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	Ultra DNR (2D/3D)
Motion Detection	Support
Region of Interest	Support
Optical Image Stabilization (OIS)	Support
Optical Defog	Support
Digital Zoom	16x
Flip	180°
Privacy Masking	Up to 24 areas
Audio	
Compression	G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2
Network	
Ethernet	RJ-45 (10Base-T/100Base-TX)
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter, QoS, Bonjour, 802.1x
Interoperability	ONVIF Profile S&G&T, API
Streaming Method	Unicast / Multicast
User/Host	20 users
Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
Browser	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, DMSS
Smart Phone	IOS, Android

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Certifications				
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014			
Port				
Video Interface	1 port(BNC, 1.0V[p-p], 75Ω)			
RS485	1			
Audio I/O	1/1			
Alarm I/O	7/2			
Power				
Power Supply	AC24V/3A(±25%), Hi-PoE			
Power Consumption	16W, 38W (Heater on, IR on)			
Environmental				
Operating Conditions	-40°C ~ 70°C (-40°F ~ +158°F) / Less than 95% RH			
Ingress Protection	IP67			
Vandal Resistance	N/A			
Structure				
Casing	Metal			
Dimensions	Φ262(mm) x 415.6 (mm)			
Net Weight	8.5kg(18.74lb)			
Gross Weight	13.5kg(29.76lb)			

Ordering Information

Туре	Part Number	Description
2MP DH-SD8 WizMind PTZ Camera SD8A24	DH-SD8A240WA-HNF	2MP 40x Starlight IR OIS WizMind Network PTZ Camera, WDR, PAL
	DH-SD8A240WAN-HNF	2MP 40x Starlight IR OIS WizMind Network PTZ Camera, WDR, NTSC
	SD8A240WA-HNF	2MP 40x Starlight IR OIS WizMind Network PTZ Camera, WDR, PAL
	SD8A240WAN-HNF	2MP 40x Starlight IR OIS WizMind Network PTZ Camera, WDR, NTSC
AC24 PFA1 Accessories PFB7	PFB306W	Wall Mount Bracket
	AC24V/3A	Power Adapter
	PFA118	Mount Adapter
	PFB710C	Ceiling Mount Bracket
	PFA150	Pole Mount Bracket
	PFB301S-E	Plane Mount Bracket

Accessories

Included:

Rev 001.001





PFB306W Wall Mount Bracket

AC24V/3A Power Adapter

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Optional:





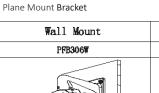


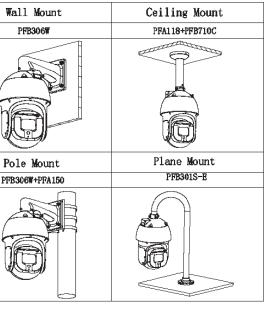
Mount Adapter

PFB710C Ceiling Mount Bracket

PFA150 Pole Mount Bracket







Dimensions (mm)

