

DH-SD8A240WA-HNF

2MP 40x Starlight+ IR WizMind AI Network PTZ Camera



- · 1/1.8" 2Megapixel CMOS
- · Powerful 40x optical zoom
- · Starlight+ technology
- · 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

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.

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.

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, top color, bottom, bottom color, bag, etc. Motor vehicle information includes plate color, type, vehicle color, sunshield, ornament, calling, seatbelt, smoking, annual inspection sticker, etc. Non-motor vehicle information includes type, 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.

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.

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.



Wiz Mind | DH-SD8A240WA-HNF

Technical Specification

Camera				
Image Sensor		1/1.8" CMOS		
Pixels		2 MP		
Max. Resolution		1920(H) × 1080(V)		
Scanning System		Progressive		
Electronic Shutter Speed		1/1s~1	1/30,000s	
Minimum Illumination		Color: 0.001Lux@F1.4; B/W: 0.0001Lux@F1.4; 0Lux@F1.4 (IR on)		
Illumination Distance		Distance up to 500m (1640ft)		
Illumination On/Off Control		Auto/I	Manual	
Illuminator Number		10		
Smart Wiper		Support		
Lens				
Focal Length		5.6mm~223mm		
Max. Aperture		F1.4~ F4.8		
Angle of View		H: 70.3° ~ 1.8°; V: 35.1° ~ 1°; D: 67.5° ~ 2°		
Optical Zoom		40x		
Focus Control		Auto/Manual		
Iris Control		Auto/Manual		
Close Focus Distance	1	100mm~ 1000mm		
DORI Distance				
Detect	Observe		Recognize	Identify
2340m(7677ft)	930m (305	1ft)	460m(1509ft)	230m(755ft)
PTZ				
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -30° ~ 90°,auto flip 180°		
Manual Control Spee	ed	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	2			
Auto Tracking		Support		
Face Recognition		Suppo	rt	
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CompressionG.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2NetworkEthernetRJ-45 (10Base-T/100Base-TX)ProtocolIPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1xInteroperabilityONVIF Profile S&G&T, APIUser/Host20 usersStorageIAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GBBrowserIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSS	Privacy Masking	Up to 24 areas	
CompressionMPEG2-Layer2NetworkRJ-45 (10Base-T/100Base-TX)EthernetRJ-45 (10Base-T/100Base-TX)ProtocolIPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, UDP, RTSP, RTP, SMPv1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTP, SMMPv1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTP, SMPv1/v2c/v3(MIB-2), ARP, RTCP, ARP, RTP, SMPV1/v2c/v3(MIB-2), ARP, RTCP, RTP, RTP, SMPV1/v2c/v3(MIB-2), ARP, RTCP, RTP, RTP, SMPV1/v2c/v3(MIB-2), ARP, RTP, RTP, RTP, RTP, RTP, RTP, RTP, R	Audio		
EthernetRJ-45 (10Base-T/100Base-TX)EthernetIPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, ICMP, IGMP, SNMPv1/v2c/v3(MiB-2), ARP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1xInteroperabilityONVIF Profile S&G&T, APIStreaming MethodUnicast / MulticastUser/Host20 usersStorageIE, Chrome, Firefox, SafariBrowserIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSS	Compression		
ProtocolIPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, UDP, IGMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1xInteroperabilityONVIF Profile S&G&T, APIStreaming MethodUnicast / MulticastUser/Host20 usersStorageNAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GBBrowserIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSS	Network		
ProtocolICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1xInteroperabilityONVIF Profile S&G&T, APIStreaming MethodUnicast / MulticastUser/Host20 usersStorageNAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GBBrowserIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSS	Ethernet	RJ-45 (10Base-T/100Base-TX)	
Streaming MethodUnicast / MulticastUser/Host20 usersStorageNAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GBBrowserIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSS	Protocol	ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS,	
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	Interoperability	ONVIF Profile S&G&T, API	
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	Streaming Method	Unicast / Multicast	
storage instant recording, Micro SD card 256GB Browser IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS	User/Host	20 users	
Browser IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS	Storage		
	Browser		
Smart Phone IOS, Android	Management Software	Smart PSS, DSS, DMSS	
	Smart Phone	IOS, Android	

Support alarm triggering by target types(human

Filtering out false alarms caused by animals, rustling

and vehicle)

leaves, bright lights, etc

Perimeter Protection

Wiz Mind | DH-SD8A240WA-HNF

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	26W, 38W (Heater on, IR on)			
Environment				
Operating Conditions	-40°C \sim 70°C (-40°F \sim +158°F) / Less than 95% RH			
Protection	IP67			
Structure				
Casing	Metal			
Dimensions	Φ262(mm) x 415.6 (mm)			
Net Weight	8.5kg(18.74lb)			
Gross Weight	14.3kg(31.53lb)			

Ordering Information

Туре	Part Number	Description
2MP WizMind PTZ Camera	DH-SD8A240WA-HNF	2MP 40x Starlight IR WizMind AI Network PTZ Camera, WDR, PAL
	DH-SD8A240WAN-HNF	2MP 40x Starlight IR WizMind Al Network PTZ Camera, WDR, NTSC
	SD8A240WA-HNF	2MP 40x Starlight IR WizMind Al Network PTZ Camera, WDR, PAL
	SD8A240WAN-HNF	2MP 40x Starlight IR WizMind Al Network PTZ Camera, WDR, NTSC
Accessories	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:





PFB306W Wall Mount AC24V/3A Power Adapter

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Optional :







PFA118 Mount Adapter

PFB710C Ceiling Mount Bracket

PFA150 Pole Mount Bracket



PFB301S-E Plane Mount Bracket

Wall Mount	Ceiling Mount	
PFB306W	PFA118+PFB710C	
Pole Mount	Plane Mount	
PFB306W+PFA150	PFB301S-E	

Dimensions (mm)





