

DH-SD10A848WA-HNF

4K 48x Starlight+ IR WizMind Network PTZ Camera





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 WizMind 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

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 WizMind 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.

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.

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.

- · 1/1.8" 8Megapixel STARVIS™ CMOS
- · Powerful 48x optical zoom
- · Starlight+ technology
- · IR distance up to 450m
- · Deep-learning-based auto tracking and perimeter protection
- · Support metadata
- · Support Hi-PoE
- · Smart wiper
- · IP67















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-5%~+10% 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.



Technical Specification				General Intelligence		
Camera			Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		
Image Sensor	1/1.8" STARVIS™ CMOS				IVS	Object Abandoned/Missing
Pixel	8MP					Object Abandoned/Wissing
Max. Resolution	3840 (H) × 21	3840 (H) × 2160 (V)			Artificial Intelligence	Cupport human hadu human fasa, matar yakiala
ROM	8GB				Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction.
RAM	2GB					Tripwire and intrusion. Support alarm triggering by
Electronic Shutter Speed	1/3 s-1/100000 s				Perimeter Protection	target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright
Scanning System	Progressive S	Progressive Scanning				lights, etc.
Min. Illumination	Color: 0.001l B/W: 0.0001 OLux (IR light	Lux@F1.4			Auto Tracking Video	Support
Illumination Distance	450 m (1476.	38 ft)			Compression	H.265+/H.265/H.264+/H.264/MJPEG (sub stream)
Illuminator On/Off Control	Zoom Prio/N	lanual/SmartII	R		Streaming Capability	3 streams
Illuminator Number	10				Resolution	4K (3840 x 2160); 1080P (1920 × 1080); 1.3M (1280 x 960); 720P (1280 × 720); D1 (704 × 576); CIF (352 × 288)
Wiper Lens	Smart Wiper				Frame Rate	Main stream: 4K/1080P/1.3M/720P (1–25/30fps) Sub stream 1: D1/CIF (1–25/30fps)
Focal Length	5.7 mm-275 mm				Bit Rate Control	Sub stream 2: 1080P/1.3M/720P (1–25/30fps) Variable Bit Rate/Constant Bit Rate
Max. Aperture	F1.4-F4.5				Bit Rate	H.264: 32 kbps-8192 kbps
Field of View	H: 64.9°–1.8°; V: 38.1°–1.0°; D: 72.2°–2.0°					H.265: 32 kbps=8192 kbps
Optical Zoom	48x				Day/Night	Auto (ICR)/Color/B/W
Focus Control	Auto/Semi-Auto/Manual				BLC	Support
Close Focus Distance	0.01 m-1.5 m (0.03 ft-4.92 ft)				WDR	120 dB
Iris Control	Auto/Manual				HLC	Support Auto/Index/Outdeer/Treek/Manual/Sedium lemn/
	Detect	Observe	Recognize	Identify	White Balance	Auto/Indoor/Outdoor/Track/Manual/Sodium lamp/ Natural light/Street lamp
DORI Distance	5120 m	2048 m	1024 m	512 m	Gain Control	Auto/Manual
	(16797.90 ft)	(6719.16 ft)	(3359.58 ft)	(1679.79 ft)	Noise Reduction	2D/3D
PTZ					Motion Detection	Support
Pan/Tilt Range	Pan: 0°-360° Tilt: -30°-+90	(endless))° (auto-flip 18	30°)		Region of Interest (RoI)	Support
Manual Control Speed	Pan: 0.1°/s=200°/s				Image Stabilization	Electronic
·	Tilt: 0.1°/s-120°/s Pan: 240°/s				Defog	Optical
Preset Speed	Pan: 2407s Tilt: 200°/s				Digital Zoom	16x
Presets	300				Flip	180°
Tour	8 (up to 32 presets per tour)				Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Pattern	5				Audio	
Scan	5				Compression	G.711a; G.711mu; G.726; AAC; G722.1; G.729; MPEG2- Layer2
Speed Adjustment	eed Adjustment Support				Network	
Power-off Memory	Support				Ethernet	RJ-45 (10/100Base-T)
Idle Motion	Preset/Tour/Pattern/Scanning					IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP;
Protocol	DH-SD Pelco-P/D (auto recognition)				Protocol	UPnP; SNMPv1/v2c/v3(MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCP

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Interoperability	ONVIF Profile S&G&T CGI
Streaming Method	Unicast/Multicast
User/Host	20
Storage	FTP; Micro SD card (256 G)
Browser	IE7 and newer versions Chrome 45 and newer versions Firefox 52ESR and earlier versions Safari (no version restrictions)
Management Software	Smart PSS, DSS, DMSS
Mobile Phone	IOS/Android
Certification	

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

Port

Video	1 port (BNC, 1.0V[p-p], 75Ω)
RS-485	1
Audio Input	1
Audio Output	1
Alarm I/O	7/2

Power

Power Supply	DC36V/2.23A Hi-PoE
Power Consumption	19W 42W (PTZ Pan/Tilt, IR light on, wiper on)

Environment

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

Structure

Casing	Aluminium alloy ADC12
Dimensions	Ф300 mm × 527 mm (11.81" × 20.75")
Net Weight	13 kg (28.66 lb)
Gross Weight	18.2 kg (40.12 lb)

Ordering Information			
Туре	Model	Description	
	DH-SD10A848WA-HNF	4K 48x Starlight+ IR WizMind Network PTZ Camera ,WDR,PAL	
4K WizMind PTZ Camera	DH-SD10A848WAN- HNF	4K 48x Starlight+ IR WizMind Network PTZ Camera ,WDR,NTSC	
	SD10A848WA-HNF	4K 48x Starlight+ IR WizMind Network PTZ Camera ,WDR,PAL	
	SD10A848WAN-HNF	4K 48x Starlight+ IR WizMind Network PTZ Camera ,WDR,NTSC	
	PFB710W	Wall Mount Bracket	
Accessories	DC36V/2.23A	Power Adapter	
		Mount Adapter	

Accessories

Included:



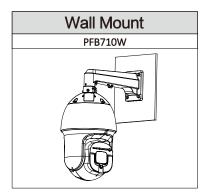




PFB710W Wall Mount Bracket

DC36V/2.23A Power Adapter

Mount Adapter



Dimensions (mm[inch])

