

# DH-SD10A448WA-HNF

4M 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" 4Megapixel 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.



Pelco-P/D (auto recognition)

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" CMOS			IVS	Object Abandoned/Missing
Pixel		4MP			Artificial Intelligence	object/loandoned/Wissing
Max. Resolution	2560 (H) × 14	140 (V)			Ai tiliciai ilitelligelice	
ROM	8GB				Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes
RAM	2GB	2GB				extraction.
Electronic Shutter Speed	1/3 s-1/100	1/3 s-1/100000 s				Tripwire and intrusion. Support alarm triggering by
Scanning System	Progressive S	Scanning			Perimeter Protection	target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright
Min. Illumination	B/W: 0.0001	Color: 0.001Lux@F1.4 B/W: 0.0001Lux@F1.4 OLux (IR light on)			Auto Tracking	lights, etc. Support
Illumination Distance	450 m (1476	.38 ft)			Video	
Illuminator On/Off Control	Zoom Prio/N	1anual/SmartI	R		Compression	H.265+/H.265/H.264+/H.264/MJPEG (sub stream)
Illuminator Number	10				Streaming Capability	3 streams
Wiper	Smart Wiper				Resolution	4M (2560 × 1440); 3M (2048 × 1536); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576); CIF (352 × 288)
Lens					Main stream: 4M/3M/1080P/1.3M/720P (1–50/60fps)	
Focal Length	5.7mm-275mm				Frame Rate	Sub stream 1: D1/CIF (1–25/30fps) Sub stream 2: 1080P/1.3M/720P (1–25/30fps)
Max. Aperture	F1.4-F4.5				Bit Rate Control	Variable Bit Rate/Constant Bit Rate
Field of View	H: 62.4°-1.7°; V: 36.6°-1.0°; D: 69.8°-2.0°				Bit Rate	H.264: 32 kbps–8192 kbps 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-1.5m (0.03 ft-4.92 ft)				WDR	120 dB
Iris Control	Auto/Manua	Auto/Manual			HLC	Support
DORI Distance	Detect	Observe	Recognize	Identify	White Balance	Auto/Indoor/Outdoor/Track/Manual/Sodium lamp/ Natural light/Street lamp
DOTH DISCUSSE	3531.03m (11584.74 ft)	1412.41m (4633.89 ft)	706.21m (2316.96 ft)	353.10m (1158.46 ft)	Gain Control	Auto/Manual
PTZ					Noise Reduction	2D/3D
Pan/Tilt Range	Pan: 0°-360°				Motion Detection	Support
rany riie Nange		0° (auto-flip 18	80°)		Region of Interest (RoI)	Support
Manual Control Speed Pan: 0.1°/s–200°/s Tilt: 0.1°/s–120°/s			Image Stabilization	Electronic		
Preset Speed	Pan: 240°/s Tilt: 200°/s				Defog	Optical
Presets	300				Digital Zoom	16x
Tour	8 (up to 32 presets per tour)				Flip	180°
Pattern	5				Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Scan	5				Audio	
Speed Adjustment	Support				Compression	G.711a; G.711mu; G.726; AAC; G722.1; G.729; MPEG2- Layer2
Power-off Memory	Support				Network	Luyerz
Idle Motion	Preset/Tour/Pattern/Scanning				Ethernet	RJ-45 (10/100Base-T)
Protocol	DH-SD Pelco-P/D (auto recognition)					

## Wiz Mind | DH-SD10A448WA-HNF

Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMPv1/v2c/v3(MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCP
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	
4MP WizMind PTZ Camera	DH-SD10A448WA-HNF	4M 48x Starlight+ IR WizMind Network PTZ Camera ,WDR,PAL	
	DH-SD10A448WAN- HNF	4M 48x Starlight+ IR WizMind Network PTZ Camera ,WDR,NTSC	
	SD10A448WA-HNF	4M 48x Starlight+ IR WizMind Network PTZ Camera ,WDR,PAL	
	SD10A448WAN-HNF	4M 48x Starlight+ IR PTZ WizMind Network Camera,WDR,NTSC	
Accessories	PFB710W	Wall Mount Bracket	
	DC36V/2.23A	Power Adapter	
		Mount Adapter	

## **Accessories**

## Included:



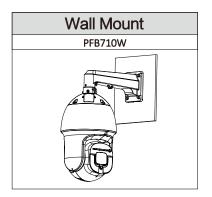




PFB710W Wall Mount Bracket

DC36V/2.23A Power Adapter

Mount Adapter



## Dimensions (mm[inch])

