

DH-SD10A448WA-HNF (Project Only)

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 learn-ing algorithms to support face recognition with high accuracy. This cam-era 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 informa-tion 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 struc-ture 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		_	Motion detection, Video tampering, Scene
Image Sensor	1/1.8" CMOS	Event Trigger	changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly
Pixel	4MP	IVS	Object Abandoned/Missing
Max. Resolution	2560 (H) × 1440 (V)	Artificial Intelligence	
ROM	8GB		Support human body, human face, motor vehicle
RAM	2GB	Video Metadata	and non-motor vehicle image capture and attributes extraction.
Electronic Shutter Speed	1/3 s-1/100000 s		Tripwire and intrusion. Support alarm triggering by
Scanning System	Progressive Scanning	Perimeter Protection	target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
Min. Illumination	Color: 0.001Lux@F1.4 B/W: 0.0001Lux@F1.4 0Lux (IR light on)	Auto Tracking	Support
Illumination Distance	450 m (1476.38 ft)	Video	
Illuminator On/Off Control	Zoom Prio/Manual/SmartIR	Compression Streaming Capability	H.265+/H.265/H.264+/H.264/MJPEG (sub stream) 3 streams (Customize up to 6)
Illuminator Number	10	Profile Selection	10 Viewing profiles
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			
Focal Length	5.7mm-275mm	Frame Rate	Main stream: 4M/3M/1080P/1.3M/720P (1–50/60fps) 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/Manual	HLC	Support
0001011	Detect Observe Recognize Identify		Auto/Indoor/Outdoor/Track/Manual/Sodium lamp/
DORI Distance	3531.03m 1412.41m 706.21m 353.10m	White Balance	Natural light/Street lamp
PTZ	(11584.74 ft) (4633.89 ft) (2316.96 ft) (1158.46 ft)	Gain Control	Auto/Manual
		Noise Reduction	2D/3D
Pan/Tilt Range	Pan: 0°-360° (endless) Tilt: -30°-+90° (auto-flip 180°)	Motion Detection	Support
Manual Control Speed	Pan: 0.1°/s-200°/s	Region of Interest (RoI)	Support
Preset Speed	Tilt: 0.1°/s–120°/s Pan: 240°/s	Image Stabilization	Electronic
Presets	Tilt: 200°/s	Defog	Optical
Tour	300	Digital Zoom	16x
Pattern	8 (up to 32 presets per tour)	Flip	180°
Scan	5	Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Speed Adjustment	5	Audio	
Power-off Memory	Support	Compression	G.711a; G.711mu; G.726; AAC; G722.1; G.729; MPEG2-Layer2
Idle Motion	Support	Network	
	Preset/Tour/Pattern/Scanning	Ethernet	RJ-45 (10/100Base-T)
Protocol	DH-SD Pelco-P/D (auto recognition)		

Pelco-P/D (auto recognition)

Mind | DH-SD10A448WA-HNF

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

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 $\frac{19W}{42W \text{ (PTZ Pan/Tilt, IR light on, wiper on)} }$

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 Φ300 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:



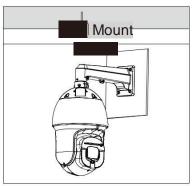




PFB710W Wall Mount Bracket

DC36V/2.23A Power Adapter

Mount Adapter



Dimensions (mm[inch])

