



DH-PTZ85448-HNF-WA

4MP 48x Starlight IR WizMind Network Positioning System





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 Perimeter Protection with high accuracy. This camera possess wide monitoring range and PFA algorithm that can always present a clear, focused image while zooming. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high quality image and good protection, which make it meet most of the requirements of video surveillance applications.

Functions

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.

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.

- 1/1.8" 4Megapixel STARVIS™ CMOS
- · Powerful 48x optical zoom
- Starlight technology
- · Max. 25/30fps@4M
- IR distance up to 400 m
- Deep-learning-based auto tracking and perimeter protection
- IP67



















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 ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV 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.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.



Technical Specification				Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering
Camera			Termineter Protection	false alarms caused by animals, rustling leaves, bright lights, etc.	
Image Sensor	1/1.8" STARVIS™ CMOS	1/1.8" STARVIS™ CMOS			Support
Pixel	4MP			General Intelligence	
Max. Resolution	2560 (H)×1440 (V)			Event Trigger	Motion detection, video tampering, scene changing, network disconnection, IP address conflict, illegal
ROM	8GB			IVS	access, and storage anomaly Object abandoned/missing
RAM	4GB				Object abandoned/missing
Electronic Shutter Speed	1/1–1/100000s			Video	LLOSS /LLOSS ALL /LLOSS AD /LLOSS A hALDS G/G LLOS
Scanning System	Progressive Scanning	Progressive Scanning			H.265/H.264H/H.264B/H.264/MJPEG(Sub Stream)
Min. Illumination	Color: 0.001Lux@F1.4 B/W: 0.0001Lux@F1.4 0Lux (IR light on)			Streaming Capability	3 Streams 4M (2560×1440); 3M (2048×1536); 1080P
Illumination Distance	400m(1312.34ft)			Resolution	(1920×1080); (1.3M)1280×960; 720P (1280×720); D1 (704×576); CIF (352×288)
Illuminator On/Off Control		Zoom Prio/Manual/SmartIR			Main stream: 4M/3M(1–25/30fps), 1080P/1.3M/720P(1–25/30fps) Sub stream 1: D1/CIF(1–25/30fps) Sub stream 2: 1080P/1.3M/720P(1–25/30fps), D1/ CIF(1–25/30fps)
Illuminator Number		8			
Wiper .	Support			Bit Rate Control	Variable/Constant
Lens Focal Length	6.25mm-300mm			Bit Rate	H.264: 3072 Kbps—15104 Kbps H.265: 1280 Kbps—9216 Kbps
Max. Aperture	F1.4-F4.5			Day/Night	Support
Field of View	H: 1.8°-62.4°; V: 1.0°-36.6°; D: 2.0°-69.8°			BLC	Support
Optical Zoom	48x			WDR	120dB
Focus Control	Auto/Semi-Auto/Manual			HLC	Support
Close Focus Distance	0.5m – 2m (1.64 ft–6.56 ft)			White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lam Natural/Street lamp
Iris Control	Auto			Gain Control	Auto/Manual
DON Distance	Detect Observe	Recognize	Identify	Noise Reduction	2D/3D
DORI Distance	3531 m 1412 m (11584.6ft) (4632.5 ft)	706 m (2316.3 ft)	353 m (1158.1ft)	Motion Detection	Support
PTZ				Region of Interest (RoI)	Support
Pan/Tilt Range	Pan: 0°-360°; Tilt: -90°-45	•		Electronic Image Stabilization (EIS)	Support
Manual Control Speed	Pan: 0.1°-160°/s; Tilt: 0.1°-	-60°/s		Defog	support
Preset Speed	Pan: 160°/s; Tilt:60°/s			Digital Zoom	16x
Presets	300	300			0°/180°
Tour	8(up to 32 preset per tour)	8(up to 32 preset per tour)			Up to 24 areas
Pattern	5			Privacy Masking Certification	77 12 13 13 13
Scan	5				CE: EN55032/EN55024/EN50130-4
Speed Adjustment	Support			Certifications	FCC: Part15 subpartB, ANSI C63.4-2014
Power-off Memory	Support			Audio	
Idle Motion	Preset/Tour/Pattern/Scanning			Compression	G.711A; G.711Mu; G.726; AAC; G.722.1; G.729; PCM; MPEG2-Layer2
Protocol	DH-SD Pelco-P/D(Auto recognition)			Port	,
Artificial Intelligence				Audio Input	1
Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction			Audio Output	1

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Alarm I/O	7/2
Analog Output	1 BNC
RS-485	1

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Analog Output	1 BNC
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DH-PFB741W Bracket + Junction Box Accessories E080-1A360223B3 Power Adapter

Accessories

Included:



Optional:



DH-PFB741W Bracket + Junction Box

Pole Mount	Wall Mount
	PFB741W

Network

Ethernet	RJ-45 (10/100Base-T)	
	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP;	
Protocol	UPnP; SNMPv1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE	
Interoperability	ONVIF Profile S&G&T CGI	
Streaming Method	Unicast/Multicast	
User/Host	20 (Total bandwidth 64M)	
Storage	FTP; Micro SD card (256G)	
	IE7 and newer versions	
Browser	Chrome 42 and older versions	
biowsei	Firefox 52 and older versions	
	Safari	
Management Software	Smart Player; Smart PSS; DSS; Easy4ip	
Mobile Phone	IOS/Android/Windows Phone	
MODILE FITOTIE	103/Android/ Windows Filone	

Power

Power Supply	DC36V/2.23A ± 25%
Power Consumption	28.7W 61.6W (PTZ rotating, illuminator on, wiper on)

Environment

Operating Temperature	-40°C to -70°C (-40°F to +158°F)
Operating Humidity	≤95% RH
Protection	IP67; TVS 6000V lightning protection; surge protection

Structure

Dimensions	210.7 mm × 399.3 mm × 517.0 mm (8.30" × 15.72" × 20.35")	
Net Weight	14.9 kg (32.85 lb)	
Gross Weight	21.4 kg (47.18 lb)	

Ordering Information			
Туре	Model	Description	
4MP WizMind Positioning System	DH-PTZ85448-HNF-WA	4MP 48x Starlight IR WizMind Network Positioning System, WDR, PAL	
	DH-PTZ85448N-HNF-WA	4MP 48x Starlight IR WizMind Network Positioning System, WDR, NTSC	
	PTZ85448-HNF-WA	4MP 48x Starlight IR WizMind Network Positioning System, WDR, PAL	
	PTZ85448N-HNF-WA	4MP 48x Starlight IR WizMind Network Positioning System, WDR, NTSC	

Dimensions (mm[inch])





