



DH-PTZ85848-HNF-WA

8MP 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" 8Megapixel CMOS
- · Powerful 48x optical zoom
- Starlight technology
- · Max. 25/30fps@4K
- 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 false alarms caused by animals, rustling leaves, bright lights, etc.		
Camera					
Image Sensor	1/1.8" CMOS		Auto Tracking	Support	
Pixel	8MP		General Intelligence	General Intelligence	
Max. Resolution	3840 (H) × 2160 (V)		Event Trigger	Motion detection, video tampering, scene changing, network disconnection, IP address conflict, illegal access, and storage anomaly	
ROM	8GB			IVS	Object abandoned/missing
RAM	4GB	4GB		Video	Object abundoned/missing
Electronic Shutter Speed	1/1–1/100000s				LL 2CE /LL 2CALL/LL 2CAD/LL 2CA/AAIREC /auch abreaux
Scanning System	Progressive			Compression	H.265/H.264H/H.264B/H.264/MJPEG (sub stream)
Min. Illumination	Color: 0.005Lux@F1.4 B/W: 0.0005Lux@F1.4 OLux (IR light on)			Streaming Capability Resolution	3 streams 4K (3840 × 2160); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576); CIF (352 ×
Illumination Distance	400 m (1312.34 ft)			Resolution	288)
Illuminator On/Off Control	Zoom Prio/Manual/SmartII	R		Frame Rate	Main stream: 4K (1–25/30 fps), 1080P/1.3M/720P (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps)
	8				Sub stream 2: 1080P/1.3M/720P (1–25/30 fps), D1/Cl (1–25/30 fps)
Wiper	Support			Bit Rate Control	Variable /Constant
Focal Length	6.25 mm–300 mm (0.25"–11.81")		Bit Rate	H.264: 4683 kbps–16384 kbps H.265: 1801 kbps–14410 kbps	
Max. Aperture	F1.4-F4.5			Day/Night	Auto (ICR)/Color/B/W
Field of View	H: 1.8°-64.9°; V: 1.0°-38.0°; D: 2.0°-72.2°		BLC	Support	
Optical Zoom	48x		WDR	120dB	
Focus Control	Auto/Semi-Auto/Manual		HLC	Support	
Close Focus Distance	0.5 m-2 m (1.64 ft-6.56 ft)		White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lam Natural light/Street lamp	
Iris Control	Auto		Gain Control	Auto/Manual	
DORI Distance	Detect Observe	Recognize	Identify	Noise Reduction	2D/3D
DOM Distance	5120 m 2048 m 1024 m 512 m (16797.90 ft) (6719.16 ft) (3359.58 ft) (1679.79 ft)		Motion Detection	Support	
PTZ			Region of Interest (RoI)	Support	
Pan/Tilt Range	Pan: 0°-360°; Tilt: -90°-45°	•		Electronic Image Stabilization	Support
Manual Control Speed	Pan: 0.1°-160°/s; Tilt: 0.1°-	Pan: 0.1°–160°/s; Tilt: 0.1°–60°/s		(EIS)	
Preset Speed	Pan: 160°/s; Tilt: 60°/s			Defog	Optical
Presets	300		Digital Zoom	16x	
Tour	8 (up to 32 presets per tour)		Flip	0°/180°	
Pattern	5		Privacy Masking	Up to 24 areas	
Scan	5		Certification		
Speed Adjustment	Support		Certifications	CE: EN55032/EN55024/EN50130-4 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.723; G.729 PCM; MPEG2-Layer2	
Protocol	DH-SD Pelco-P/D (auto recognition	n)		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	

Wiz Mind | DH-PTZ85848-HNF-WA

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

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Analog Output	1 BNC
RS-485	1

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Ethernet	RJ-45 (10/100Base-T)
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
Interoperability	ONVIF Profile S&G&T CGI
Streaming Method	Unicast/Multicast
User/Host	20 (Total bandwidth 64M)
Storage	FTP; Micro SD card (256G)
Browser	IE7 and newer versions Chrome 42 and older versions Firefox 52 and older versions Safari
Management Software	Smart Player; Smart PSS; DSS; Easy4ip
Mobile Phone	IOS/Android/Windows Phone

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		
4K WizMind Positioning System	DH-PTZ85848-HNF-WA	8MP 48x Starlight IR WizMind Network Positioning System, WDR, PAL		
	DH-PTZ85848N-HNF-WA	8MP 48x Starlight IR WizMind Network Positioning System, WDR, NTSC		
	PTZ85848-HNF-WA	8MP 48x Starlight IR WizMind Network Positioning System, WDR, PAL		
	PTZ85848N-HNF-WA	8MP 48x Starlight IR WizMind Network Positioning System, WDR, NTSC		

Accessories	DH-PFB741W	Bracket+Junction Box
, 10000001100	DC36V/2.23A	Power Adapter

Accessories

Included:



Optional:



DH-PFB741W Bracket + Junction Box

Pole Mount	Wall Mount
	PFB741W

Dimensions (mm[inch])





