



DH-PTZ85848-HNF-WA-FL

8MP 48x Starlight Laser 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 makes 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. 25/30 fps@4K
- · Laser distance up to 1000 m
- · Deep-learning-based perimeter protection
- · Auto-tracking and IVS
- · IP67











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 ±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	1				IVS	Support
Camera				Artificial Intelligence		
Image Sensor	1/1.8" CMOS				Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes
Pixel	8MP				Nace metadata	extraction. Tripwire and intrusion. Support alarm triggering by
Max. Resolution	3840 (H) × 21	160 (V)			Perimeter Protection	target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, brigh
ROM	8 GB				Auto Tracking	lights, etc. Support
RAM	2 GB				Video	Зарроле
Electronic Shutter Speed	1/3 s-1/1000	000 s				H.265; H.264B; H.264M; H.264H; MJPEG; smart H.26
Scanning System	Progressive				Compression	smart H.264
Min. Illumination	Color: 0.005 B/W: 0.0005 0 Lux (laser o	Lux@F1.4			Streaming Capability	3 streams 4K (3840x2160); 1080P (1920 × 1080); 1.3M (1280 x
Illumination Distance	1000 m (328	0.84 ft)			Resolution	960); 720P (1280 × 720); D1 (704 × 576); CIF (352 × 288)
Illuminator On/Off Control	Zoom Prio/N	lanual/Off				Main stream: 4K(1–25/30 fps), 1080P/1.3M/720P (1–25/30 fps)
Illuminator Number	1 laser				Frame Rate	Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080P/1.3M/720P (1–25/30 fps), D1/C
Wiper	Support					(1–25/30 fps)
Lens					Bit Rate Control	Variable/Constant
Focal Length	6.25 mm-30	0 mm (0.25"–:	11.81")		Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 32 Kbps-8192 Kbps
Max. Aperture	F1.4-F4.5				Day/Night	Auto (ICR)/Color/B/W
Field of View	H: 64.9°-1.8°	; V: 38°–1.3°; I	D: 71.3°–1.9		BLC	Support
Optical Zoom	48x				WDR	120 dB
Focus Control	Auto/Semi-A	uto/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	
	6000 m (19685.04 ft)	2381 m (7811.68 ft)	1200 m (3937.01 ft)	600 m (1968.50 ft)	Motion Detection	Support
PTZ					Region of Interest (RoI)	Support
Pan/Tilt Range	Pan: 0°-360° Tilt: -45°-90°				Image Stabilization	Electronic
Manual Control Speed	Pan: 0.1°-160 Tilt: 0.1°-60°				Defog	Optical
Preset Speed	Pan: 160°/s; 7				Digital Zoom	16x
Presets	300				Flip	180°
Tour	8 tours (up to	32 presets p	er tour)		Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Pattern	5				S/N Ratio	55dB
Scan	5				Audio	
Power-off Memory	Support				Compression	G.711a; G.711mu; G.726; AAC; G722.1; G.729; MPEG Layer2
Idle Motion	Preset/Tour/	Pattern/Scani	ning		Network	
Protocol	DH-SD Pelco-P/D (au	uto recognitio	n)		Ethernet	RJ-45 (10/100Base-T)
General Intelligence					Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMPv1/v2c/v3(MIB-2); DNS; DDNS; NTP; RTS RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTC
Event Trigger	Motion detection, video tampering, scene changing, network disconnection, IP address conflict, illegal access, and storage anomaly.				Interoperability	ONVIF Profile S&G&T CGI

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Streaming Method	Unicast/Multicast		
User/Host	20 (Total bandwidth 64M)		
Storage	FTP; Micro SD card (256 G)		
Browser	IE7 and later versions Chrome 45 and later versions Firefox 52ESR and earlier versions Safari		
Management Software	Smart PSS; DSS; Easy4ip; Smart Player		
Mobile Phone	iPhone/iPad/Android/Windows Phone		
Certification			
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014		
Port			
Analog Output	1 (CVBS output, BNC port)		
RS-485	1 (Baud rate range: 1200 bps–115200 bps)		
Audio Input	1 (LINE IN; bare wire)		
Audio Output	1		
Alarm I/O	7/2 Digital input (0–5V DC)		
Alarm Linkage	Capture; preset; tour; pattern; SD card record; trigger digital output; client electronic map; send email		
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; encoder state detection; memory card state detection; memory space detection		
Optical Fiber	100M single fiber FC Transmission specification: 1310nm TX/1550nm RX Distance: 20 km		
Power			
Power Supply	DC36V/5A ± 25%		
Power Consumption	Basic: 32.4W Max: 67.5W (PTZ rotating, illuminator on, wiper on)		
Environment			
Operating Temperature	-40°C to +70°C (-40°F to 158°F)		
Operating Humidity	≤95%		
Protection	IP67; TVS 6000V lightning proof; surge protection		
Structure			

Ordering Information					
Туре	Model	Description			
4K WizMind Positioning System	DH-PTZ85848-HNF- WA-FL	8MP 48x Starlight Laser WizMind Network Positioning System, WDR, PAL			
	DH-PTZ85848N-HNF- WA-FL	8MP 48x Starlight Laser WizMind Network Positioning System, WDR, NTSC			
	PTZ85848-HNF- WA-FL	8MP 48x Starlight Laser WizMind Network Positioning System, WDR, PAL			
	PTZ85848N-HNF- WA-FL	8MP 48x Starlight Laser WizMind Network Positioning System, WDR, NTSC			
Accessories	DH-PFB741W	Bracket + Junction Box			
	DC36V/5A	Power Adapter			

Accessories

Included:



DC36V/5A Power Adapter

Optional:

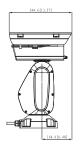


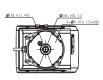
DH-PFB741W Bracket + Junction Box

Plane Mount	Pole Mount	Wall Mount
		DH-PFB741W

Dimensions (mm[inch])







Net Weight

15.4 kg (33.95 lb)