

DH-PTZ85448-HNF-WA-FL

4MP 48x Starlight Laser WizMind Network Positioning System



- · 1/1.8" 4Megapixel STARVIS™ CMOS
- · Powerful 48x optical zoom
- Starlight technology
- Max. 25/30 fps@4M
- \cdot Laser distance up to 1000 m
- · Deep-learning-based perimeter protection
- \cdot Auto-tracking and IVS
- IP67



Wiz Mind

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.

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 $\pm 25\%$ 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.



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Technical Specification					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.	
Pixel	4MP				Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright	
Max. Resolution	2560 (H) × 1440 (V)						
ROM	8 GB				Auto Tracking	lights, etc. Support	
RAM	2 GB				Video	Support	
Electronic Shutter Speed	1/3 s-1/100000 s					H.265; H.264B; H.264M; H.264H; MJPEG; smart H.265;	
Scanning System	Progressive				Compression	smart H.264	
Min. Illumination	Color: 0.001 Lux@F1.4 B/W: 0.0001 Lux@F1.4 0 Lux (laser on)				Streaming Capability Resolution	3 streams 4M (2560 × 1440); 3M (2048 × 1536); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 ×	
Illumination Distance	1000 m (328	30.84 ft)				576); CIF (352 × 288)	
Illuminator On/Off Control	Zoom Prio/N	Manual/Off				Main stream: 4M/3M(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/CIF (1–25/30 fps)	
Wiper	Support				Bit Rate Control	Variable/Constant	
Lens					Bit Rate	H.264: 32 Kbps-8192 Kbps	
Focal Length	6.25 mm-300 mm (0.25"-11.81")					H.265: 32 Kbps-8192 Kbps	
Max. Aperture	F1.4-F4.5				Day/Night	Auto (ICR)/Color/B/W	
Field of View	H: 62.4°-1.7	°; V: 36.6°–1°;	D: 69.8°–2°		BLC	Support	
Optical Zoom	48x				WDR	120 dB	
Focus Control	Auto/Semi-Auto/Manual				HLC	Support Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/	
Close Focus Distance	0.5 m-2 m (1.64 ft-6.56 ft)				White Balance	Natural light/Street lamp	
Iris Control	Iris Control Auto				Gain Control	Auto/Manual	
DORI Distance	Detect 4138 m	Observe 1634 m	Recognize 828 m	Identify	Noise Reduction	2D/3D	
	(13576 ft)	(5360 ft)	(2716 ft)	414 m (1258 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°–16 Tilt: 0.1°–60				Defog	Optical	
Preset Speed	Pan: 160°/s;				Digital Zoom	16x	
Presets	300				Flip	180°	
Tour		n 32 nresets n	ver tour)		Privacy Masking	Up to 24 areas, and up to 8 areas in the same view	
Pattern	8 tours (up to 32 presets per tour) 5				S/N Ratio	55dB	
Scan	5				Audio		
Power-off Memory	5 Support				Compression	G.711a; G.711mu; G.726; AAC; G722.1; G.729; MPEG2- Layer2	
Idle Motion Preset/Tour/Pattern/Scanning					Network		
	DH-SD				Ethernet	RJ-45 (10/100Base-T)	
Protocol		uto recognitio	on)			IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP;	
General Intelligence Motion detection, video tampering, scene changing,				ne changing,	Protocol	UPnP; SNMPv1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCP	
Event Trigger	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		
Dimensions	722mm×622mm×413mm(28.4" × 24.5" × 16.3")	
Net Weight	15.4 kg (33.95 lb)	

Ordering Information							
Туре	Model	Description					
4MP WizMind Positioning System	DH-PTZ85448-HNF- WA-FL	4MP 48x Starlight Laser WizMind Network Positioning System, WDR, PAL					
	DH-PTZ85448N-HNF- WA-FL	4MP 48x Starlight Laser WizMind Network Positioning System, WDR, NTSC					
	PTZ85448-HNF- WA-FL	4MP 48x Starlight Laser WizMind Network Positioning System, WDR, PAL					
	PTZ85448N-HNF- WA-FL	4MP 48x Starlight Laser WizMind Network Positioning System, WDR, NTSC					
Accessories	DH-PFB741W	Bracket + Junction Box					
	DC36V/5A	Power Adapter					

Accessories





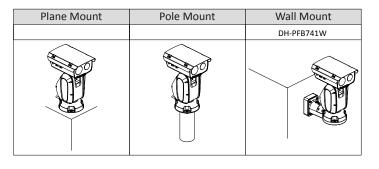
DC36V/5A Power Adapter

Optional:

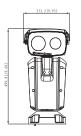


DH-PFB741W

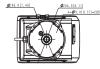
Bracket + Junction Box



Dimensions (mm[inch])







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