

DH-PTZ83240-HNF-WA

2MP 40x 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

With CNN algorithm, Dahua WizMind speed dome supports intelligent functions like tripwire and intrusion; and supports video structuralization function that recognizes motor vehicle, non-motor vehicle, and human to analyze their detailed information (plate number, vehicle brand, age and gender, etc.). With PFA algorithm, the speed dome can get clear images all the time during zooming. In addition, silent motor driver integrated circuits enable the speed dome to make faint sounds during rotation.

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" 2Megapixel STARVIS™ CMOS
- · Powerful 40x optical zoom
- · Starlight technology
- · Max. 25/30fps@2M
- · IR distance up to 400 m
- \cdot Deep-learning-based auto tracking and 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 $\pm 25\%$ 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.



Technical Specification			Artificial Intelligence			
Camera Image Sensor 1/1.8" CMOS				Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction.	
Pixels	2MP	,,,			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	1920 (H) × 1080 (V)					lights, etc.
ROM	32GB				Auto Tracking	Support
RAM	4GB				Face Recognition	Support
Electronic Shutter Speed	1/1-1/3000	00 s			General Intelligence	
Scanning System	Progressive				Event Trigger	Motion detection, video tampering, scene changing, network disconnection, IP address conflict, illegal
Min. Illumination	Color: 0.001 B/W: 0.000 OLux (IR ligh	1Lux@F1.4			IVS	access, and storage anomaly. Object abandoned/missing
Illumination Distance	400 m (131	2.34 ft)			Video	
Illuminator On/Off Control	Zoom Prio/f	Manual/Smart	tIR		Compression	H.265, H.264 Main/High/Baseline Profile, MJPEG (substream)
Illuminator Number	10				Streaming Capability	3 Streams
Wiper	Support	Support			Resolution	1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576); CIF (352 × 288)
Lens					Main stream:1080P/1.3M/720P (1–25/30 fps)	
Focal Length Max. Aperture	5.6 mm–224 mm F1.4–F4.5				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)
H: 2.0°-63.9°			Bit Rate Control	Variable/Constant		
Field of View	V: 1.2°-35° D: 2.4°-66.9°				Bit Rate	H.264: 1792 kbps–9216 kbps H.265: 512 kbps–5632 kbps
Optical Zoom	40x				Day/Night	Auto (ICR)/Color/B/W
Focus Control Auto/Semi-Auto/Manual			BLC	Support		
Close Focus Distance 0.5 m-2 m (1.64 ft-6.56 ft)			WDR	120 dB		
Iris Control	Auto	Auto			HLC	Support
DORI Distance	Detect 2340 m	Observe 930 m	Recognize 460 m	Identify 230 m	White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural light/Street lamp
	(7677 ft)	(3051 ft)	(1509 ft)	(755 ft)	Gain Control	Auto/Manual
PTZ	Pan: 0°-360	10			Noise Reduction	2D/3D
Pan/Tilt Range	Tilt: -90°-45				Motion Detection	Support
Manual Control Speed	ontrol Speed Pan: 0.1°–160°/s Tilt: 0.1°–60°/s				Region of Interest (RoI)	Support
Preset Speed	Pan: 160°/s Tilt: 60°/s				Image Stabilization	Electronic
Presets	300				Defog	Optical
Tour	8 (up to 32 presets per tour)				Digital Zoom	16x
Pattern	5				Flip	180°
Scan	5				Privacy Masking	Up to 24 areas
Speed Adjustment	djustment Support				Audio	
Power-off Memory	Support				Compression	G.711A; G.711Mu; G.726; AAC; G.722.1; G.723; G.729; PCM; MPEG2-Layer2
Idle Motion	Preset/Tour/Pattern/Scanning				Port	,,
Protocol	DH-SD	nuto recogniti	onl		Audio Input	1
	Pelco-P/D (a	auto recogniti	UII)		Addio iliput	*

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Audio Output	1
Alarm I/O	7/2
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	DC 36V/2.23A ± 25%
Power Consumption	31.85W 61.35W (PTZ rotating, illuminator on, wiper on)

Environment

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

Structure

Dimensions	210.7 mm × 366.5 mm × 498.7 mm (8.30" × 14.43" × 19.63")
Net Weight	14 kg (30.86 lb)
Gross Weight	19.77 kg (43.59 lb)

Ordering Information			
Туре	Model	Description	
	DH-PTZ83240-HNF-WA	2MP 40x Starlight IR WizMind Network Positioning System ,WDR ,PAL	
1080P WizMind Positioning System	DH-PTZ83240N-HNF- WA	2MP 40x Starlight IR WizMind Network Positioning System ,WDR , NTSC	
	PTZ83240-HNF-WA	2MP 40x Starlight IR WizMind Network Positioning System ,WDR ,PAL	
	PTZ83240N-HNF-WA	2MP 40x Starlight IR WizMind Network Positioning System ,WDR , NTSC	

Accessories	DH-PFB741W	Bracket + Junction box
710000001100	DC36V/2.23A	Power Adapter

Accessories

Included:



DC36V/2.23A Power Adapter

Optional:



DH-PFB741W Bracket + Junction Box

Pole Mount	Wall Mount
	PFB741W

Dimensions (mm[inch])







