



DH-PTZ1A225-HNR-GB

2MP 25× Starlight IR Positioning System





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS, 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 its powerful optical zoom, and accurate pan and tilt capabilities, the PTZ camera provides an all-in-one solution for long distance video surveillance of outdoor scenes. Together with infrared illumination and Starlight Technology, the camera is a great solution for dark, low light conditions. The series combines a day and night mechanical IR cut filter to produce high quality images in variable lighting conditions during the day.

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighting, WDR adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

- · 1/2.8" 2Megapixel STARVIS™ CMOS.
- · 25x optical zoom.
- · Starlight technology.
- IR distance up to 150 m.
- · Auto Tracking 3.0.
- · Perimeter protection.
- · Face detection.
- · Video Metadata.
- IP67.











Starlight Technology

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

Auto Tracking

This feature controls the pan, tilt and zoom actions of the camera to automatically track an object in motion, to keep it in view of the camera. Tracking 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.

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

Technical Specification				Intelligence		
Camera						Motor vehicle, non-motor vehicle, face, and human body detection; optimization; capturing pictures; uploading
Image Sensor	1/2.8" CMOS				Video Metadata	high-quality snapshots; extracting 12 attributes from vehicles
Pixel	2 MP					Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving;
Max. Resolution	1920 (H) × 1080 (V)				IVS (Perimeter Protection)	parking detection; people gathering; vehicle/human alarm classification; linkage tracking
ROM	4GB EMMC				Face Detection	Supports face detection, face bounding box, optimization, capturing snapshots, enhancing face images, and uploading high-quality face snapshots, and extracts 6 attributes and 8 expressions from face images. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, optimization and quality first
RAM	1 GB					
Electronic Shutter Speed	1/1 s-1/30,000 s					
Scanning System	Progressive					
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)				People Counting	Supports tripwire for people counting at entrances and exits, counting the number of people staying in an area
Illumination Distance	150 m (492.13 ft) (IR)				r copic counting	and queuing in an area, and displaying and exporting reports based on the day, week and month
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off				Auto Tracking	Yes
Illuminator Number	4 (IR)				SMD	SMD 4.0
Lens Focal Length	4.8 mm-120 mm				Acupick	Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded
Max. Aperture	F1.6–F3.5					videos to quickly locate targets It triggers the IVS rule when a target is detected and
Field of View	H: 58.5°-2.8° V: 33.2°-1.5° D: 67.5°*-3.2°				Auto Patrol	makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets
Optical Zoom	25×				Video	
Focus Control	Auto; semi-auto; manual				Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; Smart H.264+; MJPEG (Sub Stream)
Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)				Streaming Capability	3 streams
Iris Control	Auto; manual				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)
	Detect Observe	331 m	Identify 165 m		Video Frame Rate	Main stream: 1080p/1.3M/720p@(1-50/60 fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)
	, , ,	(5429.79 ft) (2145.67 ft) (1085.96 ft) (541.34 ft)			Bit Rate Control	CBR/VBR
DORI Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.				Video Bit Rate	H.264: 64 kbps–10496 kbps H.265: 25 kbps–6400 kbps
					Day/Night	Auto (ICR)/Color/B/W
					BLC	Yes
PTZ					WDR	120 dB
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –90° to +90°, auto flip 180°				HLC	Yes
Manual Control Speed	Pan: 0.1°/s–120°/s Tilt: 0.1°/s–75°/s				White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Preset Speed	Pan: 160°/s				Gain Control	Auto; manual
Preset	Tilt: 110°/s 300				Noise Reduction	2D NR; 3D NR
Tour	8 (up to 32 presets per tour)				Motion Detection	Yes
Pattern	5				Region of Interest (RoI)	Yes
Scan	5				Image Stabilization	Electronic (EIS)
Power-off Memory	Yes				Defog	Electronic
Idle Motion	Preset/Pattern/Tour/Scar				Digital Zoom	16×

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Image Rotation	180°		
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; multiple colors available		
S/N Ratio	≥61 dB		
Audio			
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723		
Network			
Network Port	RJ-45 (10/100 Base-T)		
Network Protocol	FTP;RTMP;IPv6;Bonjour;IPv4;DNS;RTCP;PPPoE;NTP;RTP;8 02.1x;HTTPS;SNMP;TCP/IP;DDNS;UPnP;NFS;ICMP;UDP;IG MP;HTTP;SSL;DHCP;SMTP;Qos;RTSP;ARP		
Interoperability	CGI;SDK;ONVIF (Profile S&G&T);P2P		
Streaming Method	Unicast/Multicast		
User/Host	20 (total bandwidth: 64 M)		
Storage	FTP/SFTP; Micro SD card (512 GB); NAS		
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions		
Management Software	DMSS; DSS Pro		
Mobile Client	iOS; Android		
Port			
Audio Input	1 channel (LINE IN, bare wire)		
Audio Output	1 channel (LINE OUT,bare wire)		
Alarm Linkage	Capture; preset; pattern; tour; recording; send email; alarm digital input		
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection		
Alarm I/O	2/1		
Audio I/O	1/1		
Power			
Power Supply	12 VDC, 4 A ± 10% PoE+ (802.3at)		
Power Consumption	Basic: 16 W Max.: 24 W (illuminator)		
Environment			
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)		
Operating Humidity	≤95%		
Protection	IP67, TVS 6000 V lightning proof; surge protection; voltage transient protection		
Structure			
Casing Material	Die cast aluminum: ADC12, spray finishing		
Product Dimensions	161.0 mm × 135.3 mm × 291.5 mm (6.34" × 5.33" × 11.48") (L × W × H)		

Net Weight		3.6 kg (7.94 lb)		
Gross Weight		6.4 kg (14.11 lb)		
2MP WizMind Positioning System	DH-PTZ1A225-HNR-GB		2MP 25× Starlight IR Positioning System	
	PTZ1A225-HN	IR-GB	2MP 25× Starlight IR Positioning System	
Accessories	DC 12V/4A		Power Adapter	
	PFA730		Junction	
	PFB730W		Wall Mount Bracket	

Accessories

Included:





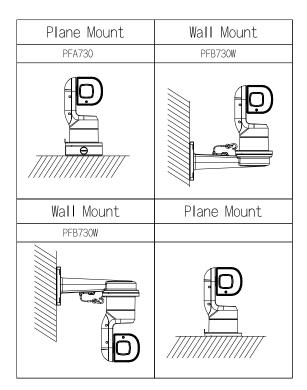
DC 12V/4A Power Adapter

PFA730 Junction

Optional:



PFB730W Wall Mount Bracket



Dimensions (mm[inch])

