



DH-PTZ37225-HNP-XB-A-EG

2MP 25x Starlight 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 Starlight Series PTZ cameras offer crispy and colorful images in low illumination environment with the latest Starlight Technology. By upgraded H.265 encoding technology, it has very high capability for video encoding, which can effectively save bandwidth and storage space. IP67 can totally prevent damage from dirt and water, and increase applicability in electrical areas and other complicated scenarios.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology off ers best-in-class light sensitivity, capturing color details in low light down to 0.005 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.

- · 1/2.8" 2Megapixel STARVIS™ CMOS.
- · 25× optical zoom.
- · Starlight technology.
- · Max. 50/60 fps@1080p.
- · IR distance up to 150 m.
- · White light distance up to 50 m.
- · Auto-tracking .
- · IVS (Perimeter Protection).
- · Job Monitoring.
- · SMD Plus.
- · IP67.













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.

Construction Monitoring

Helmet detection; helmet color recognition; workwear detection; lone working detection; absence detection.

Scene

It is specially designed to monitor instruments in the power industry, and can be widely used in places that need large-scale monitoring, have high requirements on image quality, and that need details on targets. It is ideal for locations such as rivers, forests, highways, airports, lookout posts, squares, parks, scenic spots, streets, stations, large venues, and the area surrounding residential areas.

Technical Specification					Job Monitoring	Helmet detection; helmet color recognition; workwear detection; lone working detection; absence detection
Camera				Auto Tracking	Yes	
Image Sensor	1/2.8" CMOS				SMD	Yes
Pixel	2 MP				Video	
Max. Resolution	1920 (H) × 1080 (V)				Video Compression	H.264H;H.264B;Smart H.265+;H.264;H.265;MJPEG(Sub
ROM	4 GB				Trace compression	Stream);Smart H.264+
RAM	1 GB				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Electronic Shutter Speed	1/1 s-1/30,000 s					
Scanning System	Progressive				Video Frame Rate	Main stream: 1080p/1.3M/720p@(1–50/60 fps) Sub stream 1: D1/CIF@(1–25/30 fps)
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux@F1.6 (IR/white light on)					Sub stream 2: 1080p/1.3M/720p/CIF@(1–25/30 fps)
Illumination Distance	150 m (492.13 ft) (IR) 50 m (164.04 ft) (white light)				Bit Rate Control	CBR/VBR H.264: 1792 kbps-8192 kbps
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off				Video Bit Rate	H.265: 512 kbps—5632 kbps
	4 (IR)				Day/Night	Auto (ICR)/Color/B/W
Illuminator Number	4 (white light)				BLC	Yes
Wiper	Wiper				WDR	Yes
Lens					HLC	Yes
Focal Length	4.8 mm–120 mm				White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Max. Aperture	F1.6–F3.5				Gain Control	Auto; manual
Field of View	H: 58.7°–3.1°; V: 33.2°–1.7°; D: 67.3°–3.9°				Noise Reduction	2D NR; 3D NR
Optical Zoom	25×				Motion Detection	Yes
Focus Control	Auto; semi-auto; manual				Region of Interest (RoI)	Yes
Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)				Image Stabilization	Electronic (EIS)
Iris Control	Auto				Defog	Electronic
DORI Distance	Detect	Observe	Recognize	Identify	Digital Zoom	16×
	1,655.2 m (5,430.45 ft)	653.8 m (2,145.01 ft)	331.0 m (1,085.95 ft)	165.5 m (542.98 ft)	Image Rotation	180°
PTZ						Up to 24 areas can be set, with up to 8 areas in the
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –90° to +90°				Privacy Masking	same view; multiple colors and mosaics available
Manual Control Speed	Pan: 0.1°/s–158°/s Tilt: 0.1°/s–53°/s				S/N Ratio	≥ 55 dB
Preset Speed	Pan: 100°/s				Audio	
Preset	Tilt: 93.75°/s 300				Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723
Tour	8 (up to 32 presets per tour)				Network	
Pattern	5				Network Port	RJ-45 (10/100 Base-T)
Scan	5				Network Protocol	TCP; FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; IP Filter; SMB; HTTP; SSL; DHCP; SMTP; SNMPv1/v2c/v3(MIB-2); Qos; RTSP; ARP
Power-off Memory	Yes					
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)				Interoperability	RTMP;CGI;Dahua SDK;ONVIF;API
Intelligence					Streaming Method	Unicast/Multicast
Tripwire; intrusion; crossing fence detection; loitering				User/Host	20 (total bandwidth: 64 M)	
IVS (Perimeter Protection)	detection; abandoned/missing object; fast moving; parking detection; people gathering; linkage tracking				Storage	FTP; Micro SD card (512 GB); NAS

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Browser	IE 7 and later versions Chrome 45 and later versions Firefox 52 ESR and earlier versions Safari				
Mobile Client	iOS; Android				
Certification					
Certifications	CE/FCC				
Port					
RS-485	1 (baud rate: 1200 bps–9600 bps)				
Alarm Linkage	Capture; preset; tour; pattern; recordings; alarm digital input; send email				
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card status detection; memory space detection				
Alarm I/O	2/1				
Audio I/O	1/1				
Power					
Power Supply	36 VDC/2.23 A ± 25%				
Power Consumption	Basic: 13 W Max.: 24 W (illuminator + wiper + PTZ)				
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					
Product Dimensions	310.0 mm × 166.0 mm × 180.0 mm (12.20" × 6.53" × 7.09") (L × W × H)				
Net Weight	5.9 kg (13.01 lb)				

7.0 kg (15.43 lb)

Ordering Information						
Туре	Model	Description				
2MP Camera	DH-PTZ37225-HNP-XB-A-EG	2MP 25x Starlight Positioning System				
Accessories	DC36V/2.23A	Power Adapter				

Accessories

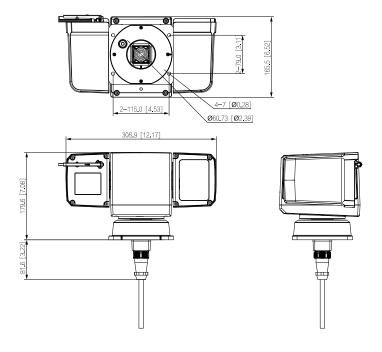
Optional:



DC36V/2.23A Power Adapter



Dimensions (mm[inch])



Gross Weight