



DH-PTZ5825Z-IRL

2MP 25x Starlight IR WizSense Network PTZ Camera





Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

System Overview

Dahua PTZ WizSence network camera adopts advanced CNN deep learning algorithms to support Perimeter Protection with high accuracy. This camera possesses wide monitor range, 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 filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets to improve 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 0.005 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.

- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 25x optical zoom
- · Starlight technology
- · Max. 25/30 fps@1080p
- \cdot IR distance up to 100 m
- · Perimeter protection
- · Face detection
- · SMD Plus
- · IP66













Environment

Dahua camera can operate in extreme temperature environments, rated for use in temperatures from $-40\,^{\circ}\text{C}$ to $+65\,^{\circ}\text{C}$ ($-40\,^{\circ}\text{F}$ to $+149\,^{\circ}\text{F}$) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating make it suitable for demanding outdoor applications.

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.

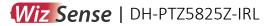
Protection

The camera allows for 6 kV lightning rating, which provides effective protection for both the camera and its structure against lightning.

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					Face Detection	Yes
Camera					SMD	Yes
Image Sensor	1/2.8" CMOS				Video	
Pixel	2 MP				Video Compression	Smart H.265+; H.265; Smart H.264+; H.264B; H.264M; H.264H; MJPEG (Sub Stream)
Max. Resolution	1920 (H) × 1080 (V)				Streaming Capability	3 streams
ROM	256 MB					1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
RAM	512 MB				Resolution	× 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Electronic Shutter Speed	1/1 s-1/30,000 s				Video Frame Rate	Main stream: 1080p/1.3M/720p (25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 720p (1–25/30 fps)
Scanning System	Progressive				Bit Rate Control	CBR; VBR
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux@F1.6 (IR light on)				Video Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 32 Kbps-8192 Kbps
Illumination Distance	100 m (328.08 ft) (IR)				Day/Night	Auto (ICR); Color; B/W
Illuminator On/Off Control	Zoom Prio; Ma	anual; Smart	IR; Off		BLC	Yes
Illuminator Number	4 (IR)				WDR	120 dB
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-F3.8				Gain Control	Auto; Manual
Field of View	H: 56.2°–2.6°; V: 32.5°–1.5°; D: 63.2°–3°				Noise Reduction	2D NR; 3D NR
Optical Zoom	25x				Motion Detection	Yes
Focus Control	Auto; Semi-auto; Manual				Region of Interest (RoI)	Yes
Close Focus Distance	1.5 m (4.92 ft)				Defog	Electronic
Iris Control	Auto				Image Rotation	180°
DORI Distance	Detect 2400 m	Observe 948 m	Recognize 480 m	Identify 240 m	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
			(1574.80 ft)	(787.40 ft)	S/N Ratio	≥ 55 dB
PTZ					Audio	
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180°				Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1
Manual Control Speed	Pan: 0.1°/s-20 Tilt: 0.1°/s-100				Network	
Preset Speed	Pan: 200°/s; Ti	ilt: 100°/s			Network Port	1 RJ-45 Port 10/100Base-T
Presets	300				Network Protocol	HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP;
Tour	8 (up to 32 pre	esets per tou	r)			SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; RTMP; TCP
Pattern	5				Interoperability	ONVIF Profile S&G&T CGI
Scan	5				Streaming Method	Unicast; Multicast
Power-off Memory	Yes				User/Host	20 (total bandwidth: 64 M)
Idle Motion	Preset; Tour; Pattern; Scan				Storage	FTP; Micro SD card (512 GB); NAS
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)				Browser	IE7 and later versions Chrome Firefox
Intelligence						Safari
IVS (Perimeter Protection)	Tripwire and in target types (h	human and ve	ehicle). Suppoi	rt filtering	Management Software	Smart PSS; DSS; IVSS; Configtool; NVR; Smart Player
,	false alarms caused by animals, rustling leaves, bright lights, etc.				Mobile Client	iOS; Android



Certification					
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014				
Port					
Alarm Linkage	Capture; preset; tour; pattern; recordings on SD card; alarm digital input; sending email				
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				
Power					
Power Supply	12 VDC, 3 A (± 10%) PoE+ (802.3at)				
Power Consumption	Basic: 12 W Max.: 21 W (illuminator + PTZ working)				
Environment					
Operating Conditions	-40 °C to +65 °C (-40 °F to +149 °F)				
Operating Humidity	≤ 95%RH				
Protection	IP66; TVS 6000 V lightning proof; surge protection; voltage transient protection				
Structure					
Casing	Aluminum alloy ADC12				
Product Dimensions	295 mm × Φ160 mm (11.61" × Φ6.30")				
Net Weight:	2.8 kg (6.17 lb)				
Gross Weight	4.3 kg (9.48 lb)				

Ordering Information						
Туре	Model	Description				
Wizsence 2MP IP PTZ Camera	DH-PTZ5825Z-IRL	2MP 25x Starlight IR WizSense Network PTZ Camera				
	PTZ5825Z-IRL	2MP 25x Starlight IR WizSense Network PTZ Camera				
Accessories	PFB305W	Wall Mount Bracket				
	PFA111	Mount Adapter				
	DC12V/3A	Power Adapter				
	PFA140	Power Box				
	PFB300C	Ceiling Mount Bracket				
	PFA120	Water-proof Junction Box				
	PFA150	Pole Mount Bracket				
	PFA151	Corner Mount Bracket				
	PFB303S	Parapet Mount Bracket				

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



PFA111 Mount Adapter



DC12V/3A Power Adapter



PFA140 Power Box



PFB300C Ceiling Mount Bracket



PFA120 Water-proof Junction Box



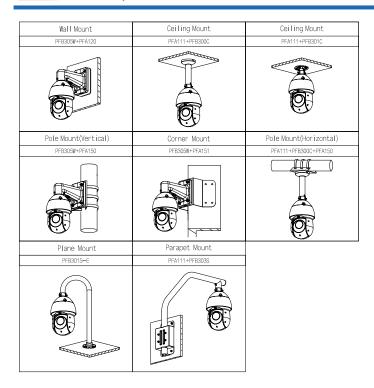
PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket



Dimensions (mm[inch])

