

VD-SD4825X 8MP 25x Starlight IR WizSense Network PTZ Camera

- · 1/2.8" 8Megapixel STARVIS™ CMOS
- · Powerful 25x optical zoom
- · Starlight technology
- · IR distance up to 100 m
- · Perimeter protection
- \cdot Face detection
- IP66

Launched by Technology, WizSense is a series of AI products and solutions that adopts 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 advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

System Overview

PTZ WizSense 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

Functions

Starlight Technology

For challenging low-light conditions, Starlight Ultra-low Light Technology offers the best in light sensitivity, capturing color in vivid detail, even in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

Face Detection

Supports 6 attributes and 8 expressions: Gender, age, glasses, mask, beard and expressions (anger, sadness, disgust, fear, surprise, calm, happiness, and confusion). It also supports face cutout settings: Face, and single inch photo. Three snapshot methods are also featured: Real-time snapshot, priority snapshot, and quality priority.



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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.

Protection

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

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Technical Specification

Camera

Camera				
Image Sensor	1/2.8" CMOS			
Pixel	8 MP			
Max. Resolution	3840 (H) × 2160 (V)			
ROM	4 GB			
RAM	1 GB			
Electronic Shutter Speed	1/1 s-1/30,000 s			
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)			
Illumination Distance	100 m (328.08 ft) (IR)			
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off			
Illuminator Number	4 (IR)			
Lens				
Focal Length	5 mm–125 mm			
Max. Aperture	F1.6-F3.6			
Field of View	H: 53.1°–3.4°; V: 30.4°–1.9°; D: 59.3°–3.9°			
Optical Zoom	25×			
Focus Control	Auto; Semi-auto; Manual			
Close Focus Distance	0.1 m–1.5 m (0.33 ft–4.92 ft)			
Iris Control	Auto; Manual			
	Detect	Observe	Recognize	Identify
DORI Distance	2,161.4 m (7.091.21 ft)	864.6 m (2,836.61 ft)	432.3 m (1,418.31 ft)	216.1 m (708.99 ft)
PTZ	(.,,	(_,,,	(-,,	(
Pan/Tilt Range	Pan: 0° to 36			
	Tilt: -15° to +90°, auto flip 180° Pan: 0.1°-200°/s			
Manual Control Speed	Tilt: 0.1°–120			
Preset Speed	Pan: 240°/s; Tilt: 200°/s			
Preset	300			
Tour	8 (up to 32 presets per tour)			
Pattern	5			
Scan	5			
Power-off Memory	Yes			
Idle Motion	Preset; Tour; Pattern; Scan			
PTZ Protocol	DH-SD Pelco-P/D (auto recognition)			
Intelligence				
IVS (Perimeter Protection)	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.			
Face Detection	Yes			

SMD	Yes
Video	
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264B; H.264M; H.264H; MJPEG (Sub Stream 1)
Streaming Capability	3 streams
Resolution	4K (3840 × 2160); 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Video Frame Rate	Main stream: 4K/4MP/1080p/1.3M/720p (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p/CIF (1–25/30 fps)
Bit Rate Control	CBR; VBR
Video Bit Rate	H.264: 3328 kbps–8192 kbps H.265: 1280 kbps–8192 kbps
Day/Night	Auto (ICR); Color; B/W
BLC	Yes
WDR	Yes
HLC	Yes
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; Manual
Noise Reduction	2D NR; 3D NR
Motion Detection	Yes
Region of Interest (Rol)	Yes
Image Stabilization	EIS
Defog	Electronic defog
Digital Zoom	16×
Image Rotation	180°
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
S/N Ratio	≥ 55 dB
Audio	
Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G.729; G.723
Audio Compression Network	
Network	G.729; G.723
Network Network Port	G.729; G.723 RJ-45 (10/100 Base-T) HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP v1/ v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; TCP;
Network Network Port Network Protocol	G.729; G.723 RJ-45 (10/100 Base-T) HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP v1/ v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; TCP; RTMP
Network Network Port Network Protocol Interoperability	G.729; G.723 RJ-45 (10/100 Base-T) HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP v1/ v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; TCP; RTMP ONVIF Profile S&G&T CGI
Network Network Port Network Protocol Interoperability User/Host	G.729; G.723 RJ-45 (10/100 Base-T) HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP v1/ v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; TCP; RTMP ONVIF Profile S&G&T CGI 20 (total bandwidth: 64 MB)
Network Network Port Network Protocol Interoperability User/Host Storage	G.729; G.723RJ-45 (10/100 Base-T)HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP v1/ v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; TCP; RTMPONVIF Profile S&G&T CGI20 (total bandwidth: 64 MB)FTP; Micro SD card (256 GB)IE 7 and later versions Firefox 52 and earlier versions Firefox 52 and earlier versions



Mobile Client	iOS; Android; iPhone; iPad
Certification	
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No. 60950-1
Port	
Audio Input	1 channel
Audio Output	1 channel
Two-way Audio	Yes
Alarm Input	2 channel, digital input (0–5 VDC)
Alarm Output	1 channel
Alarm Linkage	Capture; preset; tour; pattern; recordings on SD card; alarm digital input; send email
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection
Power	
Power Supply	12 VDC, 3 A (± 10%) PoE+ (802.3at)
Power Consumption	Basic: 9.8 W Max.: 20 W (illuminator)
Environment	
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating Humidity	≤ 95%
Protection	IP66; TVS 6000 V lightning proof; surge protection; voltage transient protection
Structure	
Product Dimensions	269.9 mm × Φ160 mm (10.62" × Φ6.30")
Net Weight	3.0 kg (6.61 lb)
Gross Weight	4.3 kg (9.48 lb)

Ordering Information				
Model	Description			
DH-SD49825XB-HNR	8MP 25x Starlight IR PTZ AI Network Camera			
SD49825XB-HNR	8MP 25x Starlight IR PTZ AI Network Camera			
PFB305W	Wall Mount Bracket			
DC12V/3A	Power Adapter			
PFA111	Mount Adapter			
PFB300C	Ceiling Mount Bracket			
PFB301C	Ceiling Mount Bracket			
PFA151	Corner Mount Bracket			
PFB303S	Parapet Mount Bracket			
PFB301S-E	Plane Mount Bracket			
PFA150	Pole Mount Bracket			
PFA120	Junction Box			
PFA140	Water-proof Power Box			
	Model DH-SD49825XB-HNR SD49825XB-HNR PFB305W DC12V/3A PFA111 PFB300C PFB301C PFB303S PFB303S PFB301S-E PFA150 PFA150 PFA150 PFA150			

Accessories

Included:



DC12V/3A Power Adapter

PFB301S-E

Plane Mount Bracket

Optional:





PFA111

Mount Adapter



PFB300C Ceiling Mount Bracket



-PFB301C Ceiling Mount Bracket





PFA150

Pole Mount Bracket



PFA120 Junction Box



Water-proof Power Box



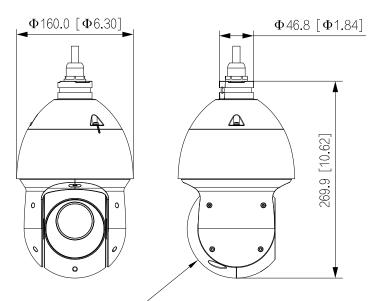






Wall Mount	Ceiling Mount	Ceiling Mount
PFB305W+PFA120	PFA111+PFB300C	PFA111+PFB301C
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Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)
PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB300C+PFA150
Plane Mount	Parapet Mount	
PFB301S-E	PFA111+PFB303S	

Dimensions (mm[inch])



Φ135.0 [Φ5.31]-

