



DH-SD6C3425XB-HNR-A-PV1

4MP 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

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera can provide large monitoring range and great detail. 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 make it can meet most of the requirements of video surveillance applications.

Functions

Starlight Technology

For challenging low-light conditions, Dahua's 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.

Smart Capture

Supports human, motor vehicle and non-motor vehicle image capture.

- · 1/2.8" 4Megapixel STARVIS™ CMOS
- Powerful 25x optical zoom
- · Starlight technology
- IR distance up to 150 m
- · Perimeter protection
- · Face detection
- Metadata
- · Full-color illuminator; red and blue warning light
- · IP66
- Smart dual illuminators (recommended to use within 50 m)













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: Realtime snapshot, priority snapshot, and quality priority.

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.

Siren and Light Active Deterrence

The camera supports the red and blue light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in the alarm voice, and supports customized voice importing.

Camera	Technical Specification	on				Face Detection	Yes
Power	Camera			SMD	Yes		
Max. Resolution 2500 16 1440 170	Image Sensor	1/2.8" CMOS			Auto Tracking	Yes	
Electronic Shutter Speed 1/4 - 1/5 / 2000 1	Pixel	4 MP			Active Deterrence		
	Max. Resolution	2560 (H) × 1440 (V)			Light Warning		
Min.	Electronic Shutter Speed	1/1 s-1/30,000 s	S			LIGHT WAITING	
Min. Illumination	ROM	4 GB				Sound Warning	Sound warning alarm: Customizable
Min. fill mrination SW. 0.0005 look 16	RAM	1 GB				Video	
Blumination Distance	Min. Illumination	B/W: 0.0005 lux	@F1.6			·	MJPEG
Sum	Illumination Distance	150 m (492.13 ft	t) (IR)			Streaming Capability	
Lens		2 (IR light))		Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 ×
Max. Aperture F1.5-F3.5 Field of View H: 55.8"-2.9"; V: 31.6"-1.6"; D: 63.7"-3.3" Optical Zoom 25x Focus Control Auto, semi-auto; manual BLC WDR 120 dB Close Focus Distance 0.8 m-5.0 m (2.62 ft-16.40 ft) WDR 120 dB Life Control Auto, manual BLC Ves WDR 120 dB Life Control Auto, manual BLC Ves WDR 120 dB Life Control Auto, manual BLC Ves WDR 120 dB Life Control Auto, manual BLC Ves WDR 120 dB Life Control Auto, manual BLC Ves WDR 120 dB Life Control Auto, manual BLC Ves WDR 120 dB Life Sm (5,429.79 tt) (2,142.39 tt) (1,085.96 ft) (541.34 tt) MDR 120 dB Life Control Auto, manual tracking, indoor, outdoor auto; sodium lamp auto outdoor auto; sodium lamp au	Lens	2 (dual light lush	onj			Video Frame Rate	Sub stream 1: D1/CIF (1–25/30 fps)
Video Bit Rate H2.64 - 2816 Nbpo-8192 Nppo	Focal Length	4.8 mm-120 mn	m			Bit Rate Control	CBR; VBR
Pield of View	Max. Aperture	F1.6-F3.5				Video Rit Rate	
Focus Control Auto, semi-auto, manual DORI Distance Doserve Recognize Identify DORI Distance DORI DORI Distance DORI Dori Dori Distance DORI Distance DORI Distance DORI Dori Dori Distance DORI Dista	Field of View	H: 55.8°-2.9°; V:	: 31.6°–1.6° ;	; D: 63.7°–3.3°		video bit Nate	· · · · · · · · · · · · · · · · · · ·
Close Focus Distance Ober Marco and Control Auto; manual Detect Observe Recognize Identify DORI Distance Detect Observe Recognize Identify DORI Distance Detect Observe Recognize Identify I,655 m S3 m S31 m I65 m (5,429.79 ft) I,065.96 ft) I,065.97 ft) I,065.96 ft) I,065.97 ft) I,065.96 ft) I,065.97 ft) I,065.	Optical Zoom	25×				Day/Night	Auto (ICR); Color; B/W
Iris Control Auto, manual Defect Diserve Becognize DORI Distance Defect Diserve DORI Distance Dori Dori Distance Dori Distanc	Focus Control	Auto; semi-auto;	; manual			BLC	Yes
Detect Observe Recognize identify DORI Distance Detect Observe Recognize Identify White Balance Auto; manual; tracking; indoor; outdoor; outdoor auto; sodium lamp; sodium lamp auto	Close Focus Distance	0.8 m-5.0 m (2.6	62 ft-16.40 f	ft)		WDR	120 dB
DORI Distance 1,655 m 653 m 331 m 165 m 165 m (5,429.79 ft) (2,142.39 ft)	Iris Control	Auto; manual				HLC	Yes
PTZ Pan: 0* to 360* endless Tilt: -20* to 490*, autof flip 180* Manual Control Speed Pan: 0* to 360* endless Tilt: -20* to 490*, autof flip 180* Preset Speed Pan: 240*/s; Tilt: 150*/s Preset 300 Defog Electric Preset 300 Digital Zoom 16× Scan 5 Power-off Memory Ves Idle Motion Preset; Tour; Pattern; Scanning PTZ Protocol Pelco-P/D (auto recognition) Intelligence Video Metadata Support human body, human face, motor vehicle and non-motor vehicle image capture. Tipyire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering files elarms caused by animaks, rustling leaves, bright Viser/Host Viser/Host Viser/Host Ves (Verimeter Protection) Noise Reduction 2D NR; 3D NR Motion Detection Yes Region of Interest (RoI) Yes Region of Interest (RoI) Yes Region of Interest (RoI) Yes Image Stabilization EIS Defog Electric Privacy Masking Up to 24 areas can be set, with up to 8 areas in the same view, supports multiple colors and mosaic blocks S/N Ratio 255 dB Audio Audio Compression G.711a; G.711Mu; G.726; G722.1; G.729; MPEG2-Layer2; G723; PCM Network Network Port R45 (10/100 Base-T) HTTP; HTTPS; TcP/IP; IPV4; RTSP; UDP; SMTP; NTP; DHCP; SMMP; SNMP;	DORI Distance					White Balance	
Pan/Tilt Range Pan: 0° to 360° endless Tilt: -20° to +90°, auto flip 180° Manual Control Speed Pan: 0.1°/s-160°/s Tilt: 0.1°/s-60°/s Preset Speed Pan: 240°/s; Tilt: 150°/s Preset Speed Pan: 240°/s; Tilt: 150°/s Preset 300 Defog Electric Defog Electric Defog Up to 24 areas can be set, with up to 8 areas in the same view; supports multiple colors and mosaic blocks Scan Scan Scan Scan Scan Scan Scan Scan						Gain Control	Auto; manual
Pan/Tilt Range Tilt: −20" to +90", auto flip 180" Region of Interest (Rol) Preset Speed Pan: 0.1"/s−60"/s Tilt: 0.1"/s−60"/s Preset Speed Pan: 240"/s; Tilt: 150"/s Preset 300 Defog Electric Privacy Masking Up to 24 areas can be set, with up to 8 areas in the same view; supports multiple colors and mosaic blocks Soan Pattern 5 Scan 5 Power-off Memory Yes Idle Motion Preset; Tour; Pattern; Scanning PTZ Protocol DH-SD Pelco-P/D (auto recognition) Intelligence Video Metadata Support human body, human face, motor vehicle and non-motor vehicle image capture. Its (Perimeter Protection) Integer (Perimeter Protection) Integer (Perimeter Protection) Tipiwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright in grant and recognition. Preset Speed Pan: 0.1"/s−60"/s Image Stabilization EIS Pelcoric Privacy Masking Up to 24 areas can be set, with up to 8 areas in the same view; supports multiple colors and mosaic blocks S/N Ratio ≥ 55 dB Audio Audio Compression G.711a; G.711Mu; G.726; G722.1; G.729; MPEG2-Layer2; G723; PCM Network Network Network Network Port RJ-45 (10/100 Base-T) HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; SMNP; SMNP y.1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; IP Filter; RTMP; Bonjour; TCP; SMB; NFS IVS (Perimeter Protection) IVS (Perimeter Protection)	PTZ					Noise Reduction	2D NR; 3D NR
Manual Control Speed Pan: 0.1*/s-160*/s Tilt: 0.1*/s-60*/s Preset Speed Pan: 240*/s; Tilt: 150*/s Preset 300 Defog Electric Defog Electric Defog Electric Digital Zoom 16× Privacy Masking Privacy Masking Privacy Masking Up to 24 areas can be set, with up to 8 areas in the same view; supports multiple colors and mosaic blocks Scan Scan Scan Sometiment Speed: Power-off Memory Yes Idle Motion Preset; Tour; Pattern; Scanning PTZ Protocol DH-SD Pelco-P/D (auto recognition) Intelligence Video Metadata Support human body, human face, motor vehicle and non-motor vehicle image capture. Video Metadata Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rusting leaves, bright Intelligence Video Metadata Viser/Host Video Intelligence Video Metadata Viser/Host Video Metadata Video Met	Pan/Tilt Range			80°		Motion Detection	Yes
Preset Speed Pan: 240*/s; Tilt: 150*/s Preset Preset 300 Defog Electric Digital Zoom 16× Tour 8 (up to 32 presets per tour) Pattern 5 Scan 5 Power-off Memory Idle Motion Preset; Tour; Pattern; Scanning PTZ Protocol DH-SD Pelco-P/D (auto recognition) Intelligence Video Metadata Support human body, human face, motor vehicle and non-motor vehicle image capture. Video Metadata Support human body, human face, motor vehicle and non-motor vehicle image capture. IVS (Perimeter Protection) IVS (Perimeter Protection) Preset Speed Prize 2	Manual Control Spood	Pan: 0.1°/s-160°	°/s			Region of Interest (RoI)	Yes
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Pattern 5 Scan 5 Power-off Memory Yes Idle Motion Preset; Tour; Pattern; Scanning Audio Compression G.711a; G.711Mu; G.726; G722.1; G.729; MPEG2-Layer2; G723; PCM PTZ Protocol DH-SD Pelco-P/D (auto recognition) Intelligence Video Metadata Support human body, human face, motor vehicle and non-motor vehicle image capture. Tripwire and intrusion. Support filtering false alarms caused by animals, rustling leaves, bright Privacy Masking Supports multiple colors and mosaic blocks S/N Ratio ≥ 55 dB Audio Audio Compression G.711a; G.711Mu; G.726; G722.1; G.729; MPEG2-Layer2; G723; PCM Network Network Port RJ-45 (10/100 Base-T) HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; SNMP; SDDNS; IPv6; 802.1x; SSL; QoS; FTP; UPnP; ICMP; SNMP; SDNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; IP Filter; RTMP; Bonjour; TCP; SMB; NFS IVS (Perimeter Protection) IVS (Perimeter Protection)	Preset	300				Digital Zoom	16×
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PTZ Protocol Pelco-P/D (auto recognition) Network Port RJ-45 (10/100 Base-T) HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; SSL; QoS; FTP; UPnP; ICMP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; IP Filter; RTMP; Bonjour; TCP; SMB; NFS IVS (Perimeter Protection) IVS (Perimeter Protection) Pelco-P/D (auto recognition) Network Port Network Protocol User/Host User/Host User/Host User/Host User/Host	Idle Motion		ttern; Scanni	ing			G723; PCM
Intelligence Video Metadata Support human body, human face, motor vehicle and non-motor vehicle image capture. Network Protocol Network Protocol Network Protocol Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright Network Protocol Network Protocol Network Protocol Support human body, human face, motor vehicle and non-motor vehicle and non-motor vehicle image capture. Network Protocol User/Host User/Host 20 (total bandwidth: 64 M)	PTZ Protocol		recognition)				DL 45 (40/400 Page T)
Support human body, human face, motor vehicle and non-motor vehicle image capture. Network Protocol DNS; DDNS; IPv6; 802.1x; SSL; QoS; FTP; UPnP; ICMP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; IP Filter; RTMP; Bonjour; TCP; SMB; NFS Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright User/Host 20 (total bandwidth: 64 M)	Intelligence					Network Port	
IVS (Perimeter Protection) target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright User/Host 20 (total bandwidth: 64 M)	Video Metadata	non-motor vehi	icle image ca	pture.		Network Protocol	DNS; DDNS; IPv6; 802.1x; SSL; QoS; FTP; UPnP; ICMP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP;
Taise alarms caused by animais, rustling leaves, bright	IVS (Perimeter Protection)	target types (hu	ıman and ve	hicle). Support	t filtering	User/Host	20 (total bandwidth: 64 M)
	2 (. 2230		ised by anim	ials, rustling le	aves, bright	Interoperability	ONVIF (Profile S&G&T)



Storage	FTP; Micro SD card (256 GB); NAS				
Browser	IE 7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari				
Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS; player; configtool; NVR; Smart Player				
Mobile Client	iOS; Android; iPhone; iPad; Windows Phone				
Certification					
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014				
Port					
Audio Input	1 (LINE IN; bare wire)				
Audio Output	1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive))				
Alarm Input	2-ch, digital input (0–5 VDC)				
Alarm Output	1-ch				
Alarm Linkage	Capture; preset; tour; pattern; recording; 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	24 VDC, 2.5 A (± 25%) (included) PoE+ (802.3at)				
Power Consumption	Basic: 13 W Max.: 23 W (illuminator + red and blue warning light+speaker + PTZ working)				
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					
Casing	ADC12				
Product Dimensions	325.3 mm × Φ202.0 mm (12.81" × Φ7.95") (H × D)				
Net Weight	4.6 kg (10.14 lb)				

Ordering Information					
Туре	Part Number	Description			
4M WizSense	DH-SD6C3425XB-HNR-A-PV1	4MP 25x Starlight IR PTZ Al Network Camera			
PTZ Camera	SD6C3425XB-HNR-A-PV1	4MP 25x Starlight IR PTZ Al Network Camera			
	DC24V/2.5A	Power Adapter			
	PFB305W	Wall Mount Bracket			
	PFA111	Mount Adapter			
	PFB300C	Ceiling Mount Bracket			
Accessories	PFB301C	Ceiling Mount Bracket			
	PFB303S	Parapet Mount Bracket			
	PFB301S-E	Plane Mount Bracket			
	PFA151	Corner Mount Bracket			
	PFA150	Pole Mount Bracket			

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DC24V/2.5A Power Adapter



PFA111 Mount Adapter



PFB300C Ceiling Mount Bracket



PFB301C Ceiling Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



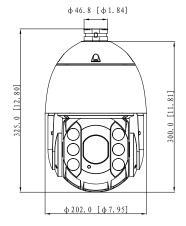
PFA151 Corner Mount Bracket

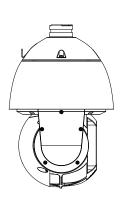


PFA150 Pole Mount Bracket

Wall Mount	Ceiling Mount	Ceiling Mount
PFB305W	PFA111+PFB300C	PFA111+PFB301C
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])







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