



DH-SD6C3425GB-HNR-A-PV1

4MP 25x Starlight TiOC Network PTZ Camera





Launched by Dahua 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 Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

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

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.

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.

- · 1/2.8" 4Megapixel STARVIS™ CMOS.
- · 25× optical zoom.
- · Starlight technology.
- Max. 25/30 fps@4MP.
- IR distance up to 150 m.
- · Perimeter protection.
- · Face detection.
- Full-color illuminator; red and blue warning light.
- Auto tracking 3.0











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.

SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

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.

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.

Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

Technical Specification						PTZ Protocol	DH-SD
Camera						Intelligence	
Image Sensor	1/2.8" CMOS					Detects motor and non-motor vehicles, faces and human bodies. It also performs tracking, takes snapshots, uploads high-quality face images and optimizes images. It extracts attributes from motor vehicles, detecting up to 10 attributes for them.	
Pixel	4 MP				Video Metadata		Video Metadata
Max. Resolution	2560 (H) × 1440 (V)					Tripwire; intrusion; crossing fence detection; loitering	
ROM	4 GB					IVS (Perimeter Protection)	detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human
RAM	1 GB					alarm classification; linkage tracking	
Electronic Shutter Speed	1/1 s-1/30,000 s						Supports face detection, face bounding box, capturing snapshots, uploading face snapshots, enhancing face
Scanning System	Progressive				Face Detection	images, and selecting a preferred image among a group of snapshots. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. 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, quality first, and selecting a preferred image among a group of snapshots.	
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux(IR light on)						
Illumination Distance	50 m (164.04 ft) (white light) 150 m (492.13 ft) (IR)						
Illuminator On/Off Control	Zoom Prio; M	anual; Smart IF	R; Off				Detects 6 helmet colors: Red, orange, yellow, blue, white,
Illuminator Number	2 (IR) 2 (Dual light fusion)						and black. An alarm will be triggered when a person is not wearing a helmet or when the color of the helmet that they are wearing does not match the configured color. It also supports compliance detection for work uniforms. Up to 5 work uniform sample libraries can be uploaded, which together can contain up to 1,000 images (the images must be 1080p and in the JPG format). An alarm will be triggered when the similarity between the detected work uniform and the samples in the library is below the set threshold (that is, below the minimum compliance standard for work uniforms). The system supports detecting the attributes of work uniforms such as the color of the uniform, and whether or not the person is wearing a mask and wearing shoe covers. An alarm will be triggered when the target is detected as not meeting the set requirements. It also detects and triggers alarms when only one person is in the construction site, and when no one is present in the detection area such as when a worker leaves their post or an area is left unmanned.
Lens							
Focal Length	5 mm-125 mm						
Max. Aperture	F1.6–F3.6					Construction Detection	
Field of View	H: 51.9°-3.0°; V: 39.7°-2.2°; D: 63.1°-3.7°					Construction Detection	
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		Auto Tracking	Yes
	2,500 m (8202.10 ft)	987.5 m (3239.83 ft)	500 m (1640.42 ft)	250 m (820.20 ft)		SMD	SMD 4.0
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.					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 videos to quickly locate targets.
						Auto Patrol	It triggers the IVS rule when a target is detected and makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets.
PTZ						Active Deterrence	
Pan/Tilt Range	Pan: 0° to 360° endless Till: –20° to +90°, auto flip 180°					Light Warning	Red and blue warning light. They can be configured to flash for 5 to 30 seconds with a high, medium or low frequency.
Manual Control Speed	Pan: 0°/s–300°/s Tilt: 0°/s–100°/s					Sound Warning	Customizable sound alarm
Preset Speed	Pan: 0°/s-300°/s Tilt: 0°/s-100°/s					Video	
Preset	300					Video Compression	H.264H;H.264B;Smart H.265+;H.264;H.265;MJPEG(Sub Stream);Smart H.264+
Tour	8 (up to 32 presets per tour)					Streaming Capability	3 streams
Pattern	5					Resolution	4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); 1.3M (1280 × 960); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scan	5 Vec						
Power-off Memory Idle Motion	Pattern; Preset; Scan; Tour					Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p@ (1–25/30 fps) Sub stream 1: D1/VGA/CIF@ (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p@ (1–25/30 fps)



Audio Output

1 channel

Bit Rate Control	CBR/VBR		
Video Bit Rate	H264: 96 kbps-14848 kbps H265: 38 kbps-8960 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 (RoI)	Yes		
Image Stabilization	Electronic (EIS)		
Defog	Electronic		
Digital Zoom	16×		
Image Rotation	180°		
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the sam view; multiple colors available		
S/N Ratio	≥55 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)		
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	DSS; DMSS		
Mobile Client	iOS; Android		
Certification			
Certifications	CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035 CE-LVD: EN 62368-1 FCC: 47 CFR FCC Part15, Subpart B, NSI C63.4		
Port			
Audio Input	1 channel		

Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital input; audio; warning light			
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	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				
Product Dimensions	325.3 mm × Φ202.0 mm (12.81" × Φ7.95")			

4.6 kg (10.14 lb)

7.13 kg (15.72 lb)

Ordering Information					
Туре	Model	Description			
4M WizSense PTZ Camera	DH-SD6C3425GB-HNR- A-PV1	4MP 25x Starlight TiOC Network PTZ Camera			
	SD6C3425GB-HNR- A-PV1	4MP 25x Starlight TiOC Network PTZ Camera			
	DC24V/2.5A	Power Adapter			
	PFB305W	Wall Mount Bracket			
	PFA111	Mount Adapter			
	PFB300C	Ceiling Mount Bracket			
Accessories	PFB301C	Ceiling Mount Bracket			
Accessories	PFB303S	Parapet Mount Bracket			
	PFB301S-E	Plane Mount Bracket			
	PFA151	Corner Mount Bracket			
	PFA150	Pole Mount Bracket			
	PFA126	Water-proof Power Box			

Net Weight

Gross Weight



Accessories

Included:



DC24V/2.5A Power Adapter



PFB305W Wall Mount Bracket

Optional:



PFA111 Mount Adapter



PFB300C Ceiling Mount Bracket



PFB301C Ceiling Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



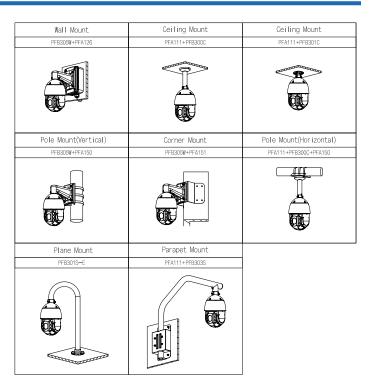
PFA151 Corner Mount Bracket



PFA150 Pole Mount Bracket



PFA126 Water-proof Power Box



Dimensions (mm[inch])

