



# DH-SD6C3425GB-HNR-A-PV1

4MP 25x Starlight TiOC Network PTZ Camera



Wiz Sense

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
- · Quick Pick.













#### 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							Supports face detection, face bounding box, capturing
Camera							snapshots, uploading face snapshots, enhancing face 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
Image Sensor	1/2.8" CMOS					Face Detection	
Pixel	4 MP					race Detection	
Max. Resolution	2560 (H) × 1440 (V)						
ROM	4 GB					preferred image among a group of snapshots.	
RAM	1 GB					Auto Tracking	Yes
Electronic Shutter Speed	1/1 s-1/30,000 s					SMD	Yes
Scanning System	Progressive					Quick Pick	Yes
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux(IR light on)					Active Deterrence  Light Warning	Red and blue warning light. They can be configured to flash for 5 to 30 seconds with a high, medium or low
Illumination Distance	50 m (164.04 ft) (white light) 150 m (492.13 ft) (IR)						frequency.  Customizable sound alarm
Illuminator On/Off Control	Zoom Prio; M	Zoom Prio; Manual; Smart IR; Off				Sound Warning	Customizable sound alarm
Illuminator Number	2 (IR)					Video	H.264H;H.264B;Smart H.265+;H.264;H.265;MJPEG(Sub
Long	2 (Dual light fusion)					Video Compression	Stream);Smart H.264+
Lens	F mm 12F m					Streaming Capability	3 streams
Focal Length  Max. Aperture	5 mm-125 mm F1.6-F3.6					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)
Field of View	H: 51.9°-3.0°; V: 39.7°-2.2°; D: 63.1°-3.7°						
Optical Zoom	25×					Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p@ (1–25/30 fp Sub stream 1: D1/VGA/CIF@ (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p@ (1–25/30 fps)
Focus Control	Auto; semi-auto; manual					Bit Rate Control	CBR/VBR
Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)					Video Bit Rate	H264: 96 kbps-14848 kbps
Iris Control	Auto; manual						H265: 38 kbps–8960 kbps
DORI Distance	Detect	Observe	Recognize	Identify		Day/Night	Auto (ICR)/Color/B/W
DON Distance	2,500 m (8202.10 ft)	987.5 m (3239.83 ft)	500 m (1640.42 ft)	250 m (820.20 ft)		BLC	Yes
PTZ						WDR	Yes
Pan/Tilt Range	Pan: 0° to 360° endless					HLC	Yes
	Tilt: -20° to +90°, auto flip 180°  Pan: 0 °/s-240 °/s					White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Manual Control Speed	Tilt: 0 °/s–90 °/s					Gain Control	Auto; manual
Preset Speed	Pan: 240 °/s Tilt: 150 °/s					Noise Reduction	2D NR; 3D NR
Preset	300					Motion Detection	Yes
Tour	8 (up to 32 presets per tour)					Region of Interest (RoI)	Yes
Pattern	5					Image Stabilization	Electronic (EIS)
Scan	5					Defog	Electronic
Power-off Memory	Yes					Digital Zoom	16×
Idle Motion	Pattern; Preset; Scan; Tour					Image Rotation	180°
PTZ Protocol	DH-SD					Duting we A.A.	Up to 24 areas can be set, with up to 8 areas in the sam
Intelligence						Privacy Masking	view; multiple colors available
IVS (Perimeter Protection)  Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking						S/N Ratio	≥55 dB

alarm classification; linkage tracking

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			
Audio Output	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				
	325.3 mm × Φ202.0 mm (12.81" × Φ7.95")			
Product Dimensions				
Product Dimensions  Net Weight	4.6 kg (10.14 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				



#### 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



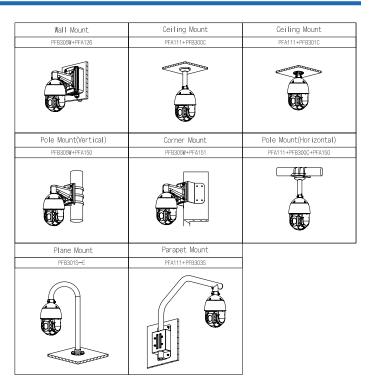
PFA151 Corner Mount Bracket



PFA150 Pole Mount Bracket



PFA126 Water-proof Power Box



## Dimensions (mm[inch])

