

DH-SD6C3432GB-HNR-A-PV1

4MP 32 Starlight TiOC 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

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

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.

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.

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.

- · 1/2.8" 4Megapixel STARVIS™ CMOS.
- · 32× optical zoom.
- · Starlight technology.
- · Max. 25/30 fps@4M.
- · IR distance up to 150 m.
- · Auto-tracking 3.0.
- \cdot Perimeter protection.
- · Face detection.
- · SMD 4.0.
- · Full-color illuminator; red and blue warning light.
- · IP66.
- · PoE (802.3at).











Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action 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.

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.

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.

Protection (IP66, TVS 6000 V)

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

Camera	Technical Specification				IVS (Perimeter Protection)		
Final Section Sectio	Camera						
Max. Resolution	Image Sensor	1/2.8" CMOS					
Row	Pixel	4 MP				Face Detection	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. The attributes are gender, age, glasses, mask, mustache and expressions. The expressions are angry, sad, hate, scared, surprised, calm, happy and confused. 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
ROM RAM 109 Face Detection Face Detection RAM 109 Face Detection RAM 109 Face Detection Fac	Max. Resolution	2560 (H) × 1440 (V)					
RAM 1.06	ROM	4 GB					
Electronic Shutter Speed 1/1 = 1/35,000 s	RAM	1 GB					
Searching System Progressive Some Option Students Service Search Option Students Service Search Option Students Search Option Stud	Electronic Shutter Speed	1/1 s-1/30,000 s					
Min. Illumination	Scanning System	Progressive					
Blumination Distance Som (14-6.0 of 11) white light)	Min. Illumination	B/W: 0.0005 lux@F1.6					Detects 6 helmet colors: Red, orange, yellow, blue, white, 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
Illuminator On/Off Control Zoom Prick Manual, Smart IR, Off	Illumination Distance						
Bluminator Number 2 (88) 2 (100 light flusion)	Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off					
Lens Focal Length 4.8 mm-154 mm Max. Aperture F1.6-4.0 Max. Aperture F1.6-4.0 Max. Aperture F1.6-5.0 F1.6-5.0 Max. Aperture F1.6-5.0 F1.6-5.0 Max. Aperture F1.6-5.0 F1.6-5.0 Max. Aperture F1.6-5.0 F1.6-5.0 Max. Aperture F1.6-6.0 Max. Aperture Max. Aperture F1.6-6.0 Max. Aperture Max. Aperture Max. Aperture F1.6-6.0 Max. Aperture Max. Aperture Max. Aperture Auto Tarcking F2.6 Max. Aperture Auto Tarcking Max. Aperture Max. Aperture Max. Aperture Max. Aperture Auto Tarcking Max. Aperture Max. Aperture Auto Tarcking Max. Aperture Max. Aperture Max. Aperture Max. Aperture Auto Tarcking Max. Aperture Max. Aperture Max. Aperture Max. Aperture Auto Tarcking Max. Aperture Max. Defense Max.	Illuminator Number						
Max. Aperture F1.6—F4.0 Supports detecting the attributes of work uniforms, and whether or not the person is wearing a mask and wearing shoe control Max. Aperture F1.6—F4.0 F	Lens					Construction Detection	
Max. Aperture F1.6—F4.0 Series Field of View H: 55.8"~2.3", V: 31.9"~1.3", D: 63.7"~2.7" Series	Focal Length	F1.6-F4.0					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
Field of View H: 55.8"> Field of View Salary	Max. Aperture						
Focus Control Auto; semi-auto; manual Auto fracking Yes	Field of View						
Auto Tracking Yes	Optical Zoom	32x					in the construction site, and when no one is present in
Iris Control Auto; manual Detect Observe Recognize Identify 2124 m 839 m 425 m 212 m 212 m 839 m 425 m 212 m 21	Focus Control	Auto; semi-auto; manual					
Detect Detect Observe Recognize Identify Detect D	Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)					
Detect Observe Recognize Identify 2124 m 839 m (6968.50 ft) 425 m 212 m (6968.50 ft) (2752.62 ft) (1394.26 ft) (695.54 ft) PTZ Pan; 0° to 360° endless Tilt: -20° to 490°, auto flip 180° Pan: 0° to 360° endless Tilt: -20° to 490°, auto flip 180° Preset Speed Pan: 240°/5 Tilt: 20°s Pan: 240°/5 P	Iris Control	Auto; manual				SMD	
PTZ Pan/Tilt Range Pan: 0° to 360° endless Tilt: -20° to 490°, auto flip 180° Preset Speed Pan: 240°/s Tilt: 20′/s Preset Speed Pan: 240°/s Tilt: 120°/s Preset Speed Patic: 260°/s Patic: 260°/s Pereset Patic: 260°/s Patic: 260°/s Pereset Patic: 260°/s Patic: 260°/s Pereset Patic: 260°/s Pereset Patic: 260°/s Pereset Speed Patic: 260°/s Preset Pereset Pereset Pereset Patic: 260°/s Pereset	DORI Distance	2124 m 839 r	1 425 m	212 m		Acupick	end devices to accurately match targets, such as people and motor vehicles, and search through live
Manual Control Speed Pan: 0'/s-240'/s Tilt: -20' to +90', auto flip 180° Manual Control Speed Pan: 0'/s-240'/s Tilt: 0'/s-120'/s Preset Speed Pan: 240'/s Tilt: 120'/s Preset 300 Preset 300 Video Tour 8 (up to 32 presets per tour) Pattern 5 Scan 5 Power-off Memory Yes Idle Motion Pattern; Preset; Scan; Tour Intelligence Video Frame Rate Video Frame Rate 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 frequency. Sound Warning Customizable sound alarm Video Video Video Compression H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEC(Sub Stream); Smart H.265+; H.264; H.265; MJPEC(Sub Stream); Smart H.265+; H.264; H.265; MJPEC(Sub Stream); Smart H.264+ Streaming Capability 3 streams 4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); 1.3M (1280 × 960); DI (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) Intelligence Video Frame Rate Video Frame Rate Substream 1: DI/VGA/CIF@(1-25/30 fps) Sub stream 1: DI/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-55/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)	PTZ	(6968.50 ft) (2752.6)	ft) (1394.26 ft)	(695.54 ft)		Auto Patrol	makes the camera link with the PTZ to rotate to the
Manual Control SpeedPan: 0'/s-240'/s Tilt: 0"/s-120*/sLight WarningRed and blue warning light. They can be configured to flash for 5 to 30 seconds with a high, medium or low frequency.Preset SpeedPan: 240'/s Tilt:120'/sSound WarningCustomizable sound alarmPreset300VideoTour8 (up to 32 presets per tour)Video CompressionH.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+Pattern5Streaming Capability3 streamsScan54M (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)IntelligenceVideo Frame RateVideo Frame RateWain stream: 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) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)Video MetadataDetects 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 motorVideo Frame RateBit Rate ControlCBR/VBR	Pan/Tilt Range					Active Deterrence	
Preset Speed Pail: 240 / S Tilt: 120 * / S Sound Warning Customizable sound alarm Video Video Video Video Video Compression MJPEG(sub Stream); Smart H.264; H.264; H.265; MJPEG(sub Stream); Smart H.264+ Streaming Capability Streaming Capability 3 streams Streams Power-off Memory Yes Resolution Pattern; Preset; Scan; Tour Intelligence 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	Manual Control Speed						flash for 5 to 30 seconds with a high, medium or low
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Pattern 5 Scan 5 Power-off Memory Yes Resolution Address and human bodies. It also performs tracking, takes snapshots, uploads high-quality face images and optimizes images. It extracts attributes from motor	Tour	8 (up to 32 presets pe	tour)				H.264H; H.264B; Smart H.265+; H.264; H.265;
Power-off Memory Yes Resolution Resolution AM (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) Intelligence 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	Pattern	5				Video Compression	
Power-off Memory Yes Resolution Pattern;Preset;Scan;Tour Resolution Pattern;Preset;Scan;Tour Video Frame Rate 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 Resolution 1296); 1080p (1920 × 1080); 720p (1280 × 720); 1.3M (1280 × 960); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) Wain stream: 1080p/1.3M/720p@(1-50/60 fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps) Fig. 1296); 1080p (1920 × 1080); 720p (1280 × 720); 1.3M (1280 × 960); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) Wideo Frame Rate Video Frame Rate Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps) CBR/VBR	Scan	5				Streaming Capability	
Intelligence Video Frame Rate Sub stream: 1080p/1.3M/720p@(1-50/60 fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps) Sub stream 3: 01/VGA/CIF@(1-25/30 fps)	Power-off Memory	Yes				Resolution	1296); 1080p (1920 × 1080); 720p (1280 × 720); 1.3M (1280 × 960); D1 (704 × 576/704 × 480); VGA (640 ×
Video Frame Rate Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps) Video Metadata Video Frame Rate Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)	Idle Motion Pattern;Preset;Scan;Tour						
Video Metadata snapshots, uploads high-quality face images and optimizes images. It extracts attributes from motor	Intelligence	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				Video Frame Rate	Sub stream 1: D1/VGA/CIF@(1-25/30 fps)
VEHICLES OFFICION TO TO ALTOHOUSE OF THEM	Video Metadata					Bit Rate Control	CBR/VBR

TIP SCIISC BI	
Video Bit Rate	H264: 96 kbps–14848 kbps H265: 38 kbps–8960 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
WDR	120 dB
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 same 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;R TP;802.1x;HTTPS;SNMP;TCP/IP;DDNS;UPnP;NFS;ICMF UDP;IGMP;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
Certifications	
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

1 channel

Audio Output

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")		
Net Weight	4.6 kg (10.14 lb)		
Gross Weight	7.13 kg (15.72 lb)		

Ordering Information						
Туре	Model	Description				
2MP TiOC WizSense PTZ Camera	DH-SD6C3232GB-HNR- A-PV1	2MP 32x TiOC WizSense Network PTZ Camera				
	SD6C3232GB-HNR-A-PV1	2MP 32x TiOC WizSense Network PTZ Camera				
Accessories	PFB305W	Wall Mount Bracket				
	DC 24 V/2.5 A	Power Adapter				
	PFA111	Mount Adapter				
	PFB301C	Ceiling Mount Bracket				
	PFB300C	Ceiling Mount Bracket				
	PFA126	Junction Box				
	PFA150	Pole Mount Bracket				
	PFA151	Corner Mount Bracket				
	PFB301S-E	Plane Mount Bracket				
	PFB303S	Parapet Mount Bracket				

Accessories

Included:



PFB305W Wall Mount Bracket



DC24V/2.5A Power Adapter

Optional:



PFA111 Mount Adapter



PFB301C Ceiling Mount Bracket



PFB300C Ceiling Mount Bracket



PFA126 Junction Box



PFA150 Pole Mount Bracket



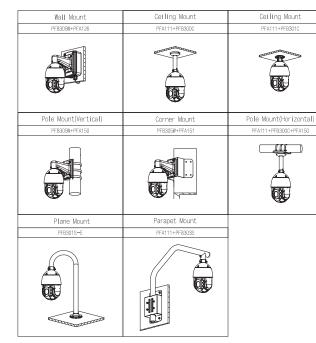
PFA151 Corner Mount Bracket



PFB301S-E Plane Mount Bracket



PFB303S Parapet Mount Bracket



Dimensions (mm[inch])

