



DH-SD6C3232GB-HNR-A-PV1

2MP 32 Starlight TiOC NETWORK PTZ CAMERA



Wiz Sense

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"2Megapixel STARVIS™ CMOS.
- · 32× optical zoom.
- · Starlight technology.
- · Max. 50/60 fps@2M.
- · IR distance up to 150 m.
- · Auto-tracking 3.0.
- · 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.

Technical Specification		IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human	
Camera				
Image Sensor	1/2.8" CMOS		alarm classification; linkage tracking	
Pixel	2 MP		Supports face detection, face bounding box, capturing 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	
Max. Resolution	1920 (H) × 1080 (V)			
ROM	4 GB	5 5		
RAM	1 GB	Face Detection		
Electronic Shutter Speed	1/1 s-1/30,000 s			
Scanning System	Progressive			
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 O lux (IR light on)		of snapshots. 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	
Illumination Distance	50 m (164.04 ft) (white light) 150 m (492.13 ft) (IR)			
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off			
Illuminator Number	2 (IR) 2 (Dual light fusion)		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	
Lens		Construction Detection	below the set threshold (that is, below the minimum compliance standard for work uniforms). The system	
Focal Length	4.8 mm–154 mm		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	
Max. Aperture	F1.6-F4.0			
Field of View	H: 60.2°-2.7°; V: 34°-1.5°; D: 68°-3°			
Optical Zoom	32 ×			
Focus Control	Auto; semi-auto; manual	Auto Tracking	post or an area is left unmanned. Yes	
Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)	SMD	SMD 4.0	
Iris Control	Auto; manual	SIVID	Uses deep learning algorithms and works with back-	
DORI Distance	Detect Observe Recognize Identify 1,986 m 785 m 398 m 198 m	Acupick	end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.	
PTZ	(6,915.75 ft) (2,575.46 ft) (1,305.77 ft) (649.61 ft)	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.	
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –20° to +90°, auto flip 180°	Active Deterrence	terrence	
Manual Control Speed	Pan: 0°/s–240°/s Tilt: 0°/s–120°/s	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.	
Preset Speed	Pan: 240°/s Tilt:120°/s	Sound Warning	Customizable sound alarm	
Preset	300	Video	customizable sound diamin	
Tour	8 (up to 32 presets per tour)		H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG	
Pattern	5	Video Compression	(Sub Stream); Smart H.264+	
Scan	5	Streaming Capability	3 streams	
Power-off Memory	Yes	Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Idle Motion Pattern; Preset; scan; tour		Video Frame Rate	Main stream: 1080p/1.3M/720p@(1-50/60 fps)	
Intelligence		video ri aille Kate	Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)	
	Detects motor and non-motor vehicles, faces and human bodies. It also performs tracking, takes	Bit Rate Control	CBR/VBR	
Video Metadata	snapshots, uploads high-quality face images and optimizes images. It extracts attributes from motor vehicles, detecting up to 10 attributes for them.	Video Bit Rate	H264: 64 kbps—10496 kbps H265: 25 kbps—6400 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; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP, NFS; ICMP; 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	
Audio Output	1 channel	

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

Capture; recording; send email; preset; tour; pattern; alarm digital input; audio; warning light

Alarm Linkage

Net Weight

Gross Weight

Accessories

Included:









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

Wall Mount	Ceiling Mount	Ceiling Mount
PFB305W+PFA126	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])





