

DH-SD6C3432GB-HNR-AGQ-PV1-EAU

4MP 32x Starlight TiOC WizSense 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

The Three-in-One Camera (TiOC) solution combines 24/7 monitoring, active deterrence and real-time alarms with artificial intelligence into one smart, innovative solution. TiOC PTZ cameras adopt auto-tracking 3.0 technology, greatly improving the monitoring scope of key targets. For distributors and installers, it not only saves time, but also reduces cost.

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.
- · 32x optical zoom.
- · Starlight technology.
- · Max. 25/30fps@4MP.
- · IR distance up to 150 m.
- · Auto-tracking 3.0.
- · Perimeter protection.
- · Face detection.
- · 4G
- · SMD 4.0.
- · Smart Dual Light.
- · IP66.



















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 (-10% to +25%, 6 kV)

Designed with -10% to +25% input voltage tolerance, the camera is suitable for even the most unstable outdoor conditions. Its 6 kV lightning rating ensures protection against lightning for both the camera and its structure.

Siren and Light Active Deterrence

The camera supports the red-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.

Technical Specification	ı	Intelligence	
Camera Image Sensor	1/2.8" CMOS	Video Metadata	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 Max. Resolution	4 MP 2560 (H) × 1440 (V)	IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loiterin detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm
RAM	4 GB 1 GB	Face Detection	classification; linkage tracking Supports face detection, optimization, capturing pictures, uploading high-quality face snapshots and enhancing face images. Attribute Extraction is also supported, where 6 attributes and 8 expressions car 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.
Electronic Shutter Speed	1 s-1/30,000 s		
Scanning System	Progressive		
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE); 0 lux (illuminator on)		
Illumination Distance	150 m (492.13 ft) (IR); 50 m (164.04 ft) (white light)		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 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 als detects and triggers alarms when only one person is in the construction site, and when no one is present the detection area such as when a worker leaves the post or an area is left unmanned.
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off		
Illuminator Number	2 (IR light); 2 (dual light fusion)		
Lens			
Focal Length	4.8 mm-154 mm	Construction Detection	
Max. Aperture	F1.6-F4.0		
Field of View	H: 55.8°–2.3°; V: 31.9°–1.3°; D: 63.7°–2.7°		
Optical Zoom	32×		
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	Auto Tracking	Auto tracking 3.0
	Detect Observe Recognize Identify	SMD	SMD4.0
DORI Distance	3,080 m 1,216.6 m 616 m 308 m (10104.99 ft) (3991.47 ft) (2021.00 ft) (1010.50 ft) *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability	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.
	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	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 preset
0.77	commissioning manual/project design tool.	Active Deterrence	
PTZ Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –20° to +90°, auto flip 180°	Light Warning	Red-Blue light warning Flash duration: 5 s–30 s Flash frequency: High, medium, low
Manual Control Speed	Pan: 0.1°/s–160°/s; Tilt: 0.1°/s–120°/s	Sound Warning	Sound warning alarm: Customizable Volume: Volume: 0-100 Alarm duration: 5 s-30 s
Preset Speed	Pan: 240°/s; Tilt: 150°/s	Video	21.21 30 300
Preset	300	Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; Smar
Tour	8 (up to 32 presets per tour)	·	H.264+; MJPEG (Sub Stream 1)
Pattern	5	Streaming Capability	3 streams AM (2560 × 1440): 3M (2048 × 1536): 3M (2304 ×
Scan	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)
Power-off Memory	Yes		
Idle Motion	Pattern; Preset; Scan; Tour	Video Frame Rate	Main stream: 4M/3M/2304 × 1296/1080p/1.3M/72 @(1–25/30 fps) Sub stream 1: D1/VGA/CIF@ (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p/CIF @(1–25/30 fps)

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Bit Rate Control	CBR/VBR	Port	
Video Bit Rate	H.264: 96 Kbps–14,848 Kbps H.265: 38 Kbps–8,960 Kbps	RS-485	1 (baud rate: 1200 bps–9600 bps)
Day/Night	Auto (ICR); Color/B/W	Audio Input	1 channel (LINE IN, bare wire)
BLC	Yes	Audio Output	1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive)
WDR	120 dB	Alarm Input	2 (on-off value input: 0–5 VDC)
HLC	Yes	Alarm Output	1 channel
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output; audio; warning light
Gain Control	Auto; manual	Alarm Event	Motion/tampering detection; audio detection;
Noise Reduction	2D NR; 3D NR		network disconnection detection; IP conflict detection; memory card state detection; memory space detection
Motion Detection	Yes	Power	space detection
Region of Interest (RoI)	Yes	Power Supply	12 VDC, 4 A (-10% to +25%)
Image Stabilization	Electronic Image Stabilization (EIS)	rower suppry	Deep sleep: 0.12 W
Defog	Electronic		Light sleep: 2.64W Basic: 7 W (not pulling stream in 4G); 8 W
Digital Zoom	16×	Davies Communities	(pulling stream in 4G); Basic: 11 W (illuminator + not
Image Rotation	180°	Power Consumption	pulling stream in 4G), 12 W (illuminator + pulling stream in 4G) Max: 18 W (illuminator + red and blue alarm lights + speaker + 4G + PTZ)
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	Environment	
Audio		Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2;	Operating Humidity	≤ 95%
Network	G722.1; G729; G723	Protection	IP66; TVS 6000 V lightning proof; surge protection; voltage transient protection
Network Port	RJ-45 (10/100 Base-T)	Structure	
	LTE-FDD: Seven-Band B1/3/5/7/8/20/28 LTE-TDD: Tri-Band 38/40/41 WCDMA: Tri-Band 1/5/8	Product Dimensions	325.0 mm × Φ211.0 mm (12.80" × Φ8.31")
Wireless Carrier Frequency Band		Net Weight	4.2 kg (9.26 lb)
	GSM: Band3/5/8	Gross Weight	6.7 kg (14.77 lb)
Power Transmission	CE: 4G: Power class3: 23 dBm ± 2.7 dB 3G: Power class3: 24 dBm + 1/-3 dB 2G: Power class0: 30 dBm ± 2 dB (GSM1800/1900) Power class5: 33 dBm ± 2 dB (GSM850/900)		
Network Protocol	FTP;RTMP;IPv6;Bonjour;IPv4;DNS;RTCP;PPPoE;NTP;RT P;802.1x;QoS;HTTPS;SNMP;TCP/IP;DDNS;UPnP;NFS;IC MP;UDP;IGMP;HTTP;SSL;DHCP;SMTP;RTSP;ARP		
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; SDK		
Streaming Method	Unicast; Multicast		
User/Host	20 (total bandwidth: 64 M)		
Storage	Micro SD card (512 GB); FTP/SFTP; NAS		
Browser	IE 9 and later versions; Chrome 41 and later versions; Firefox 50 and later versions; Safari 10 and later versions		
	DMCC DCC Dr.		

DMSS; DSS Pro

iOS; Android

Management Software

Mobile Client

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Ordering Information				
Туре	Model	Description		
PTZ Camera	DH-SD6C3432GB-HNR- AGQ-PV1-EAU	4MP 32x Startlight TiOC WizSense Network PTZ Camera		
	SD6C3432GB-HNR-AGQ- PV1-EAU	4MP 32x Startlight TiOC WizSense Network PTZ Camera		
Accessories	PFB305W	Wall Mount Bracket		
	DC12V/4A	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		

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	

Accessories

Included:



PFB305W Wall Mount Bracket



DC12V/4A Power Adapter

Optional:



PFA111 Mount Adapter



PFB301C 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])





