

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 Camera		IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm
Pixel	4 MP		pictures, uploading high-quality face snapshots and enhancing face images. Attribute Extraction is also
Max. Resolution	x. Resolution 2560 (H) × 1440 (V)		supported, where 6 attributes and 8 expressions can be detected. Face cutout is also offered, where you
ROM	4 GB	Face Detection	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
RAM	1 GB		
Electronic Shutter Speed	1 s-1/30,000 s		of snapshots. Detects 6 helmet colors: Red, orange, yellow, blue,
Scanning System	Progressive		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
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	50 m (164.04 ft) (white light)		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			
Illuminator Number	2 (IR light); 2 (dual light fusion)		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
Lens			
Focal Length	4.8 mm–154 mm		covers. An alarm will be triggered when the target is detected as not meeting the set requirements. It also
Max. Aperture	rture F1.6-F4.0		detects and triggers alarms when only one person is in the construction site, and when no one is present in
Field of View	H: 55.8°–2.3°; V: 31.9°–1.3°; D: 63.7°–2.7°		the detection area such as when a worker leaves their post or an area is left unmanned.
Optical Zoom	32×	Auto Tracking	Auto tracking 3.0
Focus Control	Auto; semi-auto; manual	SMD	SMD4.0
Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)	Acupick	Uses deep learning algorithms and works with backend devices to accurately match targets, such as
Iris Control	Auto; manual	Acupiek	people and motor vehicles, and search through live and recorded videos to quickly locate targets.
DORI Distance	Detect Observe Recognize Identify 3,080 m 1,216.6 m 616 m 308 m (10104.99 ft) (3991.47 ft) (2021.00 ft) (1010.50 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.
PTZ	(10104.99 ft) (3991.47 ft) (2021.00 ft) (1010.50 ft)	Active Deterrence	
	Pan: 0° to 360° endless		Red-Blue light warning Flash duration: 5 s-30 s
Pan/Tilt Range	Tilt: -20° to +90°, auto flip 180°	Light Warning	Flash frequency: High, medium, low
Manual Control Speed	Pan: 0.1°/s–160°/s; Tilt: 0.1°/s–120°/s Pan: 240°/s;	Sound Warning	Sound warning alarm: Customizable Volume: Volume: 0-100 Alarm duration: 5 s-30 s
Preset Speed	Tilt: 150°/s	Video	
Preset	300	Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; Smart
Tour	8 (up to 32 presets per tour)	·	H.264+; MJPEG (Sub Stream 1)
Pattern	5	Streaming Capability	3 streams
Scan Power-off Memory	5 Yes	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)
Idle Motion	Pattern; Preset; Scan; Tour		Main stream: 4M/3M/2304 × 1296/1080p/1.3M/720p
Intelligence	Detects motor and non-motor vehicles, faces and	Video Frame Rate	@(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)
Video Metadata	human bodies. It also performs tracking, takes snapshots, uploads high-quality face images and	Bit Rate Control	CBR/VBR
	optimizes images. It extracts attributes from motor vehicles, detecting up to 10 attributes for them.	Video Bit Rate	H.264: 96 Kbps–14,848 Kbps H.265: 38 Kbps–8,960 Kbps
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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 Image Stabilization (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)
Wireless Carrier Frequency Band	LTE-FDD: Seven-Band B1/3/5/7/8/20/28 LTE-TDD: Tri-Band 38/40/41 WCDMA: Tri-Band 1/5/8 GSM: Band3/5/8
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
Management Software	DMSS; DSS Pro
Mobile Client	iOS; Android
Port	
RS-485	1 (baud rate: 1200 bps–9600 bps)
Audio Input	1 channel (LINE IN, bare wire)
Audio Output	1 channel (LINE OUT,bare wire; built-in speaker (mutually exclusive)
Alarm Input	2 (on-off value input: 0–5 VDC)

	2.10				
	Alarm Output	1 channel			
	Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output; audio; warning light			
	Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection			
	Power				
	Power Supply	12 VDC, 4 A (-10% to +25%)			
	Power Consumption	Deep sleep: 0.12 W Light sleep: 2.64W Basic: 7 W (not pulling stream in 4G); 8 W (pulling stream in 4G); Basic: 11 W (illuminator + not pulling stream in 4G), 12 W (illuminator + pulling stream in 4G) Max: 18 W (illuminator + red and blue alarm lights + speaker + 4G + PTZ)			
	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			

	325.0 mm × Φ211.0 mm (12.80" × Φ8.31")	
Net Weight 4	1.2 kg (9.26 lb)	
Gross Weight 6	5.7 kg (14.77 lb)	

Structure

voltage transient protection

Ordering Information				
Туре	Model	Description		
PTZ Camera	DH-SD6C3432GB-HNR- AGQ-PV1-EAU	4MP 32x Startlight TiOC WizSense Network PTZ Camera		
1 12 camera	SD6C3432GB-HNR-AGQ- PV1-EAU	4MP 32x Startlight TiOC WizSense Network PTZ Camera		
	PFB305W	Wall Mount Bracket		
	DC12V/4A	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		

Accessories

Included:



PFB305W Wall Mount Bracket





DC12V/4A Power Adapter

Optional:



PFA111 Mount Adapter



PFB301C Ceiling Mount Bracket



PFB300C Ceiling Mount Bracket



PFA126 Junction Box



PFA150 Pole Mount Bracket



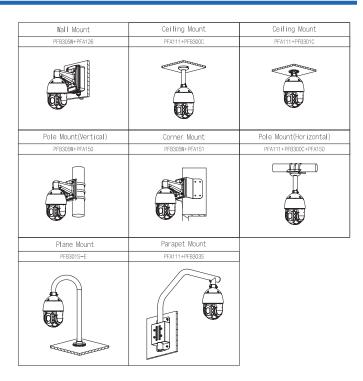
PFA151 Corner Mount Bracket



PFB301S-E Plane Mount Bracket



PFB303S Parapet Mount Bracket



Dimensions (mm[inch])

