

DH-SD6CE232GB-HNR

2MP 32x Starlight IR WizSense 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

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.

Face Detection

Supports 6 attributes and 8 expressions: Gender, age, glasses, face mask, beard and expressions (anger, sadness, disgust, fear, surprise, calm, happiness, and confusion). It also supports face cutout settings: Face, and single inch photo. Three snapshot methods are also featured: Real-time snapshot, priority snapshot, and quality priority.

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@1080p.
- IR distance up to 250 m.
- · Auto Tracking 3.0.
- · Perimeter protection.
- · Face detection.
- · SMD 4.0
- IP67, IK10.











Starlight Technology

For challenging low-light conditions, Dahua's Starlight Ultra-low Light Technology offers the best in light sensitivity, capturing color in vivid detail, even in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

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 (IP67, TVS 8000 V)

IP67, TVS 8000 V lightning proof, surge protection, and voltage transient protection.

Environment (-40 °C to +70 °C, IP67)

Developed to operate in extreme conditions, Dahua camera can function in temperatures ranging from $-40\,^{\circ}\text{C}$ to $+70\,^{\circ}\text{C}$ ($-40\,^{\circ}\text{F}$ to $+158\,^{\circ}\text{F}$) at 95% humidity. It was subjected to rigorous dust and water immersion tests, gaining its IP67 Ingress Protection certification, making it suitable for demanding outdoor applications.

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.

Technical Specification						Intelligence	
Camera					Detects motor and non-motor vehicles, faces and human		
Image Sensor	1/2.8" CMOS					Video Metadata	bodies. It also performs tracking, takes snapshots, uploads high-quality face images and optimizes images. It extracts attributes from motor vehicles, detecting up to
Pixel	2 MP						10 attributes for them
Max. Resolution	1920 (H) × 1080 (V)					IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; Vehicle/Human
ROM	4 GB						Alarm Classification; linkage tracking
RAM	1 GB 1/1 s-1/30,000 s Progressive Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 O lux@F1.6 (IR light on)					Face Detection	Face detection; bounding box; optimization; capturing pictures; uploading high-quality face snapshots; face enhancement. Face attributes: Gender, age, facial expressions (Anger, sad, antipathy, fear, surprise, calm, happy, and confused), face mask, and mustache. Face image and 1 inch photos are supported for face cutouts. Face capture: Real-time snapshot, face priority, and quality priority
Electronic Shutter Speed							
Scanning System							
Min. Illumination							
Illumination Distance	250 m (820.2	1 ft) (IR)					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
Illuminator On/Off Control	Zoom Prio; M	lanual; Smart IF	R; Off				
Illuminator Number	6 (IR)						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
Lens							uploaded, which together can contain up to 1,000 images (the images must be 1080p and in the JPG format). An
Focal Length	4.8 mm–154 mm F1.6–F4.0 H: 60.2°–2.7°; V: 34°–1.5°; D: 68°–3° 32× Auto; semi-auto; manual						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 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
Max. Aperture						Construction Detection	
Field of View							
Optical Zoom							
Focus Control							
Close Focus Distance	0.8 m-5.0 m (2.62 ft-16.40 ft)					as when a worker leaves their post or an area is left unmanned	
Iris Control	Auto; manual				Auto Tracking	Yes	
	Detect	Observe	Recognize	Identify		SMD	SMD 4.0
DORI Distance	1,986 m (6,915.75 ft)	785 m (2,575.46 ft)	398 m (1,305.77 ft)	198 m (649.61 ft)		Acupick	Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and
PTZ						Acupiek	motor vehicles, and search through live and recorded videos to quickly locate targets
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: -20° to +90°, auto flip 180°				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	
Manual Control Speed	Pan: 0.1°/s–260°/s Tilt: 0.1°/s–120°/s					Video	position of the target and part of based of its presess
Preset Speed		Pan: 0°/s–300°/s Tilt: 0°/s–200°/s				Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream); Smart H.264+
Preset	300					Streaming Capability	3 streams
Tour	8 (up to 32 presets per tour)				0 1,	1080p(1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×	
Pattern	5					Resolution	720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scan	5 Vec					Video Frame Rate	Main 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)
Power-off Memory	Yes					Bit Rate Control	CBR/VBR
Idle Motion PTZ Protocol	Pattern; Preset; Scan; Tour DH-SD					Video Bit Rate	H264: 64 Kbpss–10496 Kbps H265: 25 Kbps–6400 Kbps
	Pelco-P/D(Au	to recognition)				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	Yes	
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.	
S/N Ratio	≥ 55 dB	
Audio		
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723	
Network		
Network Port	1×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	Micro SD card (512 GB); FTP/SFTP; NAS	
Browser	IE 9 and later versions Chrome 42 and later versions Firefox 50 and later versions Safari 10 and later versions	
Management Software	DSS; DMSS; Easy4ip; Smart PSS; IVSS	
Mobile Client	iOS; Android	
Port		
Analog Output	1 channel (CVBS output, BNC)	
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)	
Alarm Linkage	Capture; preset; tour; pattern; recording; alarm digital input; audio; send email	

Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection		
Alarm I/O	7/2		
Audio I/O	1/1		
Power			
Power Supply	24 VDC, 2.5 A ± 25%, PoE+ (802.3at)		
Power Consumption	Max.: 25.5 W (illuminator + heater + PTZ)		
Environment			
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)		
Operating Humidity	≤ 95%		
Protection	IP67; IK10; TVS 8000V lightning proof; surge protection; voltage transient protection		
Structure			
Product Dimensions	337.4 mm × Φ209 mm (13.28" × Φ8.23")		
Net Weight	5.8 kg (12.79 lb)		
Gross Weight	9.4 kg (20.72 lb)		

Ordering Information					
Туре	Model	Description			
2MP WizSense Network PTZ Camera	DH-SD6CE232GB-HNR	2MP 32x Starlight IR WizSense Network PTZ Camera			
	SD6CE232GB-HNR	2MP 32x Starlight IR WizSense Network PTZ Camera			
Accessories	DC24V/2.5A	Power Adapter			
	PFB305W	Wall Mount Bracket			
	PFA111	Mount Adapter			
	PFA140	Power Box			
	PFB300C	Ceiling Mount Bracket			
	PFA120	Juncton Box			
	PFA150	Pole Mount Bracket			
	PFA151	Corner Mount Bracket			
	PFB303S	Parapet Mount Bracket			

Accessories

Included:



DC24V/2.5A Power Adapter



PFB305W Wall Mount Bracket

Optional:



PFA111 Mount Adapter



PFA140 Power Box



PFB300C Ceiling Mount Bracket



PFA120 Juncton Вох



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket

PFB303S Parapet Mount Bracket

Wall Mount	Ceiling Mount	Ceiling Mount
PFB305W+PFA120	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	



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Dimensions (mm[inch])

