



DH-SD5A232GB-HNR

2MP 32x Starlight IR 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

Unique and elegant, the black semicircular sphere discreetly monitors from a distance without drawing undue attention to itself. It has a powerful optical zoom, and accurate pan, tilt and zoom capabilities, providing 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, and True WDR for locations with direct sunlight and glare.

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.

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.

- 1/2.8" 2Megapixel STARVIS™ CMOS.
- 32x optical zoom.
- · Starlight technology.
- · Max. 25/30fps@1080P.
- IR distance up to 150 m.
- · Auto-tracking 3.0.
- · Perimeter protection.
- · Face detection.
- SMD 4.0.
- · Quick Pick.
- IP67, IK10.













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.

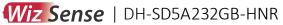
Protection (IP67, TVS 6000 V)

IP67, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

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.

Technical Specification			
Camera			Supports face detection, optimization, tracking, capturing pictures, uploading high-quality face
Image Sensor	1/2.8" CMOS	Face Detection	snapshots, and face enhancement; Supports attributes extraction. 6 attributes and 8 expressions: Gender, age, glasses, expressions (angry, sad, hate, scary, surprise, calm, happy and confused), mask, mustache; Supports face cutout: Face, one-inch photo. Capturing strategies include real-time capturing, optimization, and quality first.
Pixel	2 MP	Face Detection	
Max. Resolution	1920 (H) × 1080 (V)		
ROM	4 GB		
RAM	1 GB	Auto Tracking	Yes
Electronic Shutter Speed	1/1 s-1/30,000 s	SMD	Yes
Scanning System	Progressive	Quick Pick	Yes
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)	Video Video Compression	H.264H; H.264B;Smart H.265+; H.264; H.265; MJPEG(Sub Stream 1); Smart H.264+
Illumination Distance	150 m (492.13 ft)	Streaming Capability	3 streams
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Illuminator Number	4 (IR)	Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Lens			Main stream: 1080p/1.3M/720p (1–25/30 fps) Sub
Focal Length	4.5 mm-144 mm	Video Frame Rate	stream 1: D1/VGA/CIF (1–25/30 fps)Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)
Max. Aperture	F1.6-F4.0		
Field of View	H: 58.4°-3.0°; V: 33.4°-1.7°; D: 66.4°-3.4°	Bit Rate Control	CBR/VBR
Optical Zoom	32×	Video Bit Rate	H264: 64 kbps–10496 kbps H265: 25 kbps–6400 kpbs
Focus Control	Auto; semi-auto; manual	Day/Night	Auto (ICR)/Color/B/W
Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)	BLC	Yes
Iris Control	Auto; manual	WDR	120 dB
	Detect Observe Recognize Identify	HLC	Yes
DORI Distance	1986 m 785 m 398 m 198 m (6515.75 ft) (2575.46 ft) (1305.77 ft) (649.61 ft)	White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
PTZ		Gain Control	Auto; manual
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180°	Noise Reduction	2D NR; 3D NR
Manual Control Speed	Pan: 0.1°/s-300°/s	Motion Detection	Yes
·	Tilt: 0.1°/s–200°/s	Region of Interest (RoI)	Yes
Preset Speed	Pan: 400°/s; Tilt: 300°/s	Image Stabilization	Electronic (EIS)
Preset	300	Defog	Electronic
Tour	8 (up to 32 presets per tour)	Digital Zoom	16×
Pattern	5	Image Rotation	180°
Scan	5	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
Power-off Memory	Yes	S/N Ratio	≥ 55 dB
Idle Motion	Pattern; Preset; Scan; Tour	Audio	
Intelligence	Tripuire, intrucion, disabing for soo, leit-sit-	Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2;
IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human	Network	G722.1; G729; G723
	alarm classification; linkage tracking	Network Port	RJ-45 (10/100 Base-T)



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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	ONVIF (Profile S&G&T); CGI; SDK				
Streaming Method	Unicast/Multicast				
User/Host	20 (total bandwidth: 64 M)				
Storage	Micro SD card (Up to 512 GB); FTP; NAS				
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions				
Management Software	DSS; DMSS				
Mobile Client	iOS; Android				
Certification					
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No.60950-1				
Port					
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output				
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% PoE+ (802.3at)				
Power Consumption	Basic: 10 W Max: 22 W (illuminator on)				
Environment					
Operating Temperature	−40°C to +70°C				
Operating Humidity	≤ 95% (RH)				
Protection	IP67; IK10; TVS 6000V lightning proof; surge protection; voltage transient protection				
Structure					
Product Dimensions	332 mm × Φ190 mm (13.07" × Φ7.48")				
Net Weight	4.7 kg (10.36 lb)				
Gross Weight	8.0 kg (17.64 lb)				

Ordering Information				
Туре	Model	Description		
2MP WizSense PTZ Camera	DH-SD5A232GB-HNR	2MP 32x Starlight IR WizSense Network PTZ Camera		
	SD5A232GB-HNR	2MP 32x Starlight IR WizSense Network PTZ Camera		
Accessories	PFB305W	Wall Mount Bracket		
	DC 24 V/2.5 A	Power Adapter		
	PFA111	Mount Adapter		
	PFA120	Mount Adapter		
	PFB300C	Ceiling Mount Bracket		
	PFA150	Pole Mount Bracket		
	PFA151	Corner Mount Bracket		
	PFB301C	Ceiling Mount Bracket		

Accessories

Included:





PFB305W Wall Mount Bracket

DC 24 V/2.5 A Power Adapter

Optional:



PFA111 Mount Adapter



PFA120 Water-proof Junction Box



PFB300C Ceiling Mount Bracket



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



PFB301C Ceiling Mount Bracket

Installation

Wall Mount	Ceiling Mount 1	Ceiling Mount 2
PFB305W+PFA120	PFA111+PFB300C	PFA111+PFB301C
Pole Mount (Vertical)	Corner Mount	Pole Mount (Horizontal)
PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB300C+PFA150

Dimensions (mm [inch])

