

DH-SD5A232GB-HNR

2MP 32x Starlight IR Network PTZ Camera



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.

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.



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.

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Technical Specification

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Camera			
Image Sensor	1/2.8" CMOS		
Pixel	2 MP		
Max. Resolution	1920 (H) × 1080 (V)		
ROM	4 GB		
RAM	1 GB		
Electronic Shutter Speed	1/1 s-1/30,000 s		
Scanning System	Progressive		
Min. Illumination	Color: 0.005 lux@F1.3 B/W: 0.0005 lux@F1.3 0 lux (IR light on)		
Illumination Distance	150 m (492.13 ft)		
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off		
Illuminator Number	4 (IR)		
Lens			
Focal Length	4.5 mm–144 mm		
Max. Aperture	F1.5-F4.0		
Field of View	H: 58.4°-3.0°; V: 33.4°-1.7°; D: 66.4°-3.4°		
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		
	Detect Observe Recognize Identi	fy	
DORI Distance	1986 m 785 m 398 m 198 n (6515.75 ft) (2575.46 ft) (1305.77 ft) (649.61)		
PTZ			
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: −15° to +90°, auto flip 180°		
Manual Control Speed	Pan: 0.1°/s-300°/s Tilt: 0.1°/s-200°/s		
Preset Speed	Pan: 400°/s; Tilt: 300°/s		
Preset	300		
Tour	8 (up to 32 presets per tour)		
Pattern	5		
Scan	5		
Power-off Memory	Yes		
Idle Motion	Pattern; Preset; Scan; Tour		
PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)		
Intelligence			

Supports face detection, optimization, tracking, capturing pictures, uploading high-quality face snapshots, and face enhancement; Supports attributes extraction. 6 attributes and 8 expressions: Gender, age, glasses, expressions (angry, sad, hate, **Face Detection** 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. Auto Tracking Yes Yes SMD Quick Pick Yes Video H.264H; H.264B;Smart H.265+; H.264; H.265; Video Compression MJPEG(Sub Stream 1); Smart H.264+ Streaming Capability 3 streams 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 Resolution × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288) Main stream: 1080p/1.3M/720p@ (1-25/30 fps) Video Frame Rate Sub stream 1: D1/VGA/CIF@ (1-25/30 fps) Sub stream 2: 720p@ (1-25/30 fps) Bit Rate Control CBR/VBR H264: 64 kbps-10496 kbps Video Bit Rate H265: 25 kbps-6400 kpbs Auto (ICR)/Color/B/W Day/Night Yes 120 dB WDR HLC Yes Auto; indoor; outdoor; ATW; manual; sodium lamp; White Balance natural light; street lamp Gain Control Auto; manual Noise Reduction 2D NR; 3D NR Motion Detection Yes Region of Interest (Rol) Yes Image Stabilization Electronic (EIS) Defog Electronic **Digital Zoom** 16× Image Rotation 180° Up to 24 areas can be set, with up to 8 areas in the Privacy Masking same view S/N Ratio ≥ 55 dB Audio PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; Audio Compression G722.1; G729; G723 Network Network Port 1 × RJ-45 (10/100 Base-T)

BLC

IVS (Perimeter Protection)

Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking

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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	CGI; SDK; ONVIF (Profile S&G&T); P2P	
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		
Audio Input	1 channel	
Audio Output	1 channel	
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



Water-proof Junction Box

PFB300C



PFB301C Ceiling Mount Bracket

Mount Adapter



PFA150 Pole Mount Bracket





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Installation

Wall Mount	Ceiling Mount 1	Ceiling Mount 2
PFB306W+PFA120	PFA111+PFB300C	PFA111+PF8301C
Pole Mount (Vertical)	Corner Mount	Pole Mount (Horizontal)
PFB305W+PFA150	PFB306W+PFA151	PFA111+PFB300C+PFA150

Dimensions (mm [inch])



