

DH-SD50432GB-HNR

4MP 32x Starlight 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 large-scale monitoring. It harnesses the latest starlight technology, allowing it to produce highly detailed images even in low light conditions. The camera offers smooth control and high-grade protection that enable it to meet the requirements of video surveillance in small and medium-sized scenes.

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.

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" 4Megapixel STARVIS™ CMOS.
- 32x optical zoom.
- Starlight technology.
- · Max. 25/30 fps@4MP.
- · Auto-tracking.
- · Perimeter protection.
- · Face detection.
- · SMD4.0.
- · IP67.
- · IK10.













Protection (IP67, TVS 6000 V)

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

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.

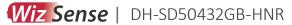
Auto-tracking

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.

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 Specificati	on	Auto Tracking	Yes
Camera		SMD	Yes
Image Sensor	1/2.8" CMOS	Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events.
Pixel	4 MP	Video	that users are interested in normalized events.
Max. Resolution	2560 (H) × 1440 (V)		H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG
ROM	4 GB	Video Compression	(Sub Stream1); Smart H.264+
RAM	1 GB	Streaming Capability	3 streams
Electronic Shutter Speed	1/1 s-1/30,000 s	Resolution	4M (2560 × 1440); 3M (2048 × 1536); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning System	Progressive		Main stream: 4M/3M/1080p/1.3M/720p (1–25/30 fps)
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6	Video Frame Rate	Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)
Lens			CBR/VBR
Focal Length	4.8 mm-154 mm	Video Bit Rate	H264: 96–14848 Kbps H265: 38–8960 Kbps
Max. Aperture	F1.6–F4.0	Day/Night	Auto (ICR)/Color/B/W
Field of View	H: 55.8°–2.3° V: 31.9°–1.3°	BLC	Yes
rieid of view	V: 51.9 -1.5 D: 63.7°-2.7°	WDR	120 dB
Optical Zoom	32×	HLC	Yes
Focus Control	Auto; semi-auto; manual	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Close Focus Distance	0.1 m-1.5 m	Gain Control	Auto; manual
Iris Control	Auto; manual	Noise Reduction	2D NR; 3D NR
DORI Distance	Detect Observe Recognize Identify	Motion Detection	Yes
	3,080 m 1216.6 m 616 m 308 m (10,104.99 ft) (3,991.47 ft) (2,021.00 ft) (1,010.50 ft)	Region of Interest (RoI)	Yes
PTZ		Image Stabilization	Electronic(EIS)
Pan/Tilt Range	Tilt: 0° to +90°, auto flip 180 Pan: 0° to 360° endless	Defog	Electronic
Manual Control Speed	Pan: 0.1°/s–350°/s; Tilt: 0.1°/s–250°/s	Digital Zoom	16×
Preset Speed	Pan: 500°/s; Tilt: 500°/s	Image Rotation	180°
Preset	300	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same
Tour	8 (up to 32 presets per tour)	S/N Ratio	view ≥55 dB
Pattern	5	Audio	255 db
Scan	5		PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1;
Power-off Memory	Yes	Audio Compression	G729; G723
Idle Motion	Pattern; Preset; Scan; Tour	Network	
PTZ Protocol	DH-SD	Network Port	RJ-45 (10/100 Base-T)
Intelligence		Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPP0E; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP;
IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking	Interoperability	ARP CGI; SDK; ONVIF (Profile S&G&T); P2P
Face Detection	Supports face detection, optimization, tracking, capturing	Streaming Method	Unicast/Multicast
	pictures, uploading high-quality face snapshots, and face enhancement; Supports attributes extraction. 6 attributes and 8 expressions: Gender, age, glasses, expressions	User/Host	20 (total bandwidth: 64 M)
	(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.	Storage	Micro SD card (512 GB); FTP/SFTP; NAS
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Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions				
Management Software	DSS Pro; DMSS				
Mobile Client	iOS; Android				
Certification					
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL62368-1 + CAN/CSA C22.2, No. 62368-1				
Port					
Audio Input	1 channel (LINE IN, bare wire)				
Audio Output	1 channel (LINE OUT,bare wire)				
Alarm Linkage	Capture; recoding; send email; preset; tour; pattern; alarm digital output; audio				
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% (Included) PoE+ (802.3at)				
Power Consumption	Basic: 13 W Max.: 16 W (PTZ)				
Environment	Environment				
Operating Temperature	-40°C to +60°C (-40°F to +140°F)				
Operating Humidity	≤ 95%				
Protection	IP67; IK10; 6000V lightning proof; surge protection; voltage transient protection				
Structure					
Product Dimensions	Φ186 mm × 253 mm (Φ7.32" × 9.96")				
Net Weight	2.5 kg (5.51 lb)				
Gross Weight	4.5 kg (9.92 lb)				

Ordering Information					
Туре	Model	Description			
4MP WizSense PTZ Camera	DH-SD50432GB-HNR	4MP 32x Starlight WizSense Network PTZ Camera			
	SD50432GB-HNR	4MP 32x Starlight WizSense Network PTZ Camera			
	PFB300S	Wall Mount Bracket			
	PFA110	Mount Adapter			
	DC 24 V/2.5 A	Power Adapter			
	PFA140	Power Box			
	PFB300C	Ceiling Mount Bracket			
Accessories	PFA120	Junction Box			
Accessories	PFA150	Pole Mount Bracket			
	PFA151	Corner Mount Bracket			
	PFB303S	Parapet Mount Bracket			
	PFB301S-E	Plane Mount Bracket			
	TF-P100	MicroSD Memory Card			
	PFM900-E	Integrated Mount Tester			

Accessories

Included:







PFA110 Mount Adapter



DC24V/2.5A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount Bracket



PFA120 Junction Box



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



TF-P100 MicroSD Memory Card



PFM900-E Integrated Mount Tester

Wall Mount	Ceiling Mount	Ceiling Mount
PFA110+PFB300S+PFA120	PFA110+PFB300C	PFA110+PFB301C
Pole Mount(Vertical)	Pole Mount(Horizontal)	Corner Mount
PFA110+PFB300S+PFA150	PFA110+PFB300C+PFA150	PFA110+PFB300S+PFA151
Plane Mount	Parapet Mount	
PFB301S-E	PFA110+PFB303S	

Dimensions (mm[inch])



