



DH-SD50232GB-HNR

2MP 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" 2Megapixel STARVIS™ CMOS.
- 32× optical zoom.
- · Starlight technology.
- · Max. 25/30 fps@2 MP.
- · Auto-tracking 3.0.
- · Quick Pick.
- · 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 Specification						Auto Tracking	Yes
Camera						SMD	Yes
Image Sensor	1/2.8" STARVIS™ CMOS					Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events.
Pixel	2 MP					Video	that users are interested in norm style events.
Max. Resolution	1920 (H) × 1080 (V)					Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG
ROM	4 GB					·	(Sub Stream1); Smart H.264+
RAM	1 GB					Streaming Capability	3 streams 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Electronic Shutter Speed	1/1–1/30000 s					Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning System	Progressive					Video Frame Rate	Main stream: 1080P/1.3M/720P (1–25/30 fps) Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 720P (1–25/30 fps)
Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0.0005Lux@F1.6						
Lens						Bit Rate Control	CBR/VBR
Focal Length	4.5 mm-144 mm					Video Bit Rate	H.265/H.264: 3 kbps–20480 kbps
Max. Aperture	F1.6-F4.0					Day/Night	Auto (ICR)/Color/B/W
Field of View	H: 58.4°-3.0°; V: 33.4°-1.7°; D: 66.4°-3.4°					BLC	Yes
Optical Zoom	32×					WDR	120 dB
Focus Control	Auto; Semi-auto; manual					HLC	Yes
Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)					White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Iris Control	Auto; manual					Gain Control	Auto; manual
DORI Distance	Detect	Observe	Recognize	Identify		Noise Reduction	2D; 3D
	1,986 m	785 m	398 m	198 m		Motion Detection	Yes
PTZ	(6,915.75 ft)	(2,575.46 ft)	(1,305.77 ft)	(649.61 ft)		Region of Interest (RoI)	Yes
Tilt: 0° to +90°, auto flip 180						Image Stabilization	Electronic Image Stabilization (EIS)
Pan/Tilt Range	Pan: 0° to 360° endless					Defog	Yes
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 view
Tour	8 (up to 32 presets per tour)					S/N Ratio	≥ 55 dB
Pattern	5					Audio	
Scan Power-off Memory	5 Yes					Audio Compression	G.711a; G.711Mu; G.722.1; G.726; MPEG2-Layer2; G.729; G.723; PCM
Idle Motion	Pattern; Preset; Scan; Tour					Network	G.725, FCWI
PTZ Protocol	DH-SD					Network Port	RJ-45 (10/100Base-T)
Intelligence							
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking					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; ARP
	Supports face detection, optimization, tracking, capturing pictures, uploading high-quality face snapshots, and face					Interoperability	CGI; SDK; ONVIF (Profile S&G&T); P2P
Face Detection	enhancement; Supports attributes extraction. 6 attributes and 8 expressions: Gender, age, glasses, expressions					Streaming Method	Unicast/Multicast
	(angry, sad, hate, scary, surprise, calm, happy and confused), mask, mustache; Supports face cutout: Face,					User/Host	20 (total bandwidth: 64 M)
	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 42 and later versions Firefox 50 and later versions Safari 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; 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			
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: 12.8 W Max: 16 W			
Environment				
Operating Temperature	-40°C to +60°C (-40°F to +140°F)			
Operating Humidity	≤ 95% (RH)			
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)			
When the vertical field of view is between 0° and 7°, the image might present different degrees of ghosting.				

Ordering Information					
Туре	Model	Description			
2MP WizSense	DH-SD50232GB-HNR	2MP 32x Starlight WizSense Network PTZ Camera			
PTZ Camera	SD50232GB-HNR	2MP 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])





