



DH-SD52C232GB-HNR

2MP 32x In-ceiling 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.
- · IK10.











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.

Protection (±25%, 6 kV)

Designed with $\pm 25\%$ input voltage tolerance, the camera is suitable for even the most unstable outdoor conditions. Its 6 kV lightning rating ensures protection against lightning for both the camera and its structure.

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 Al NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events.	
Pixel	2 MP			Video	that asers are interested in norm swip 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)
Min. Illumination	Color: 0.005Li B/W: 0.0005L				video Fiaille Nate	Sub stream 2: 720P (1–25/30 fps)
Lens					Bit Rate Control	CBR/VBR
Focal Length	4.5 mm-144 r	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	
	Detect	Observe	Recognize	Identify	Noise Reduction	2D; 3D
DORI Distance	1,986 m	785 m	398 m	198 m	Motion Detection	Yes
0.7.7	(6,915.75 ft)	(2,575.46 ft)	(1,305.77 ft)	(649.61 ft)	Region of Interest (RoI)	Yes
PIZ	PTZ			Image Stabilization	Electronic Image Stabilization (EIS)	
Pan/Tilt Range	Tilt: 0° to +90°, auto flip 180 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		esets per tour)			S/N Ratio	≥ 55 dB
Pattern	5			Audio		
Scan	5					G.711a; G.711Mu; G.722.1; G.726; MPEG2-Layer2; G.729;
Power-off Memory	Yes				Audio Compression	G.723; PCM
Idle Motion	Pattern; Preset; Scan; Tour			Network		
PTZ Protocol DH-SD			Network Port	RJ-45 (10/100Base-T)		
Intelligence IVS (Perimeter Protection)	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 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			Interoperability	CGI; SDK; ONVIF (Profile S&G&T); P2P	
Face Detection				Streaming Method	Unicast/Multicast	
Face Detection				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 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	

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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	-30°C to +60°C (-22°F to +140°F)		
Operating Humidity	≤ 95% (RH)		
Protection	IK10; 6000V lightning proof; surge protection; voltage transient protection		

Structure

Product Dimensions	176.6 mm × Φ198.0 mm (6.95" × Φ7.80")
Net Weight	2.2 kg (4.85 lb)
Gross Weight	3.7 kg (8.16 lb)

Ordering Information			
Туре	Model	Description	
2MP WizSense PTZ Camera	DH-SD52C232GB-HNR	2MP 32x Starlight IR WizSense Network PTZ Camera	
	SD52C232GB-HNR	2MP 32x Starlight IR WizSense Network PTZ Camera	
Accessories	DC 24 V/2.5 A	Power Adapter	
	TF-P100	MicroSD Memory Card	
	PFM900-E	Integrated Mount Tester	

Accessories

Included:



DC24V/2.5A Power Adapter

Optional:







PFM900-E Integrated Mount Tester

In-ceiling Mount

Dimensions (mm[inch])





