

DH-SD52C232GB-HNR

2MP 32x In-ceiling WizSense 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

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.

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Technical Specification

Camera

camera				
Image Sensor	1/2.8" STARVIS™ CMOS			
Pixel	2 MP			
Max. Resolution	1920 (H) × 1080 (V)			
ROM	4 GB			
RAM	1 GB			
Electronic Shutter Speed	1/1-1/30000 s			
Scanning System	Progressive			
Min. Illumination	Color: 0.005Lu×@F1.6 B/W: 0.0005Lu×@F1.6			
Lens				
Focal Length	4.5 mm-144 mm			
Max. Aperture	F1.6-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			
DORI Distance	Detect	Observe	Recognize	Identify
	1,986 m (6,915.75 ft)	785 m (2,575.46 ft)	398 m (1,305.77 ft)	198 m (649.61 ft)
DT7				

PTZ

Pan/Tilt Range	Tilt: 0° to +90°, auto flip 180 Pan: 0° to 360° endless	
Manual Control Speed	Pan: 0.1°/s-350°/s; Tilt: 0.1°/s-250°/s	
Preset Speed	Pan: 500°/s; Tilt: 500°/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	
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	
Face Detection	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	

Auto Tracking	Yes
SMD	Yes
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events.
Video	
Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream1); Smart H.264+
Streaming Capability	3 streams
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Video Frame Rate	Main stream: 1080P/1.3M/720P (1–50/60 fps) Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 720P (1–25/30 fps)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.265/H.264: 3 kbps-20480 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
WDR	120 dB
HLC	Yes
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; manual
Noise Reduction	2D; 3D
Motion Detection	Yes
Region of Interest (RoI)	Yes
Image Stabilization	Electronic Image Stabilization (EIS)
	Electronic Image Stabilization (EIS) Yes
Image Stabilization	
Image Stabilization Defog	Yes
Image Stabilization Defog Digital Zoom	Yes 16×
Image Stabilization Defog Digital Zoom Image Rotation	Yes 16× 180° Up to 24 areas can be set, with up to 8 areas in the same
Image Stabilization Defog Digital Zoom Image Rotation Privacy Masking	Yes 16× 180° Up to 24 areas can be set, with up to 8 areas in the same view
Image Stabilization Defog Digital Zoom Image Rotation Privacy Masking S/N Ratio	Yes 16× 180° Up to 24 areas can be set, with up to 8 areas in the same view
Image Stabilization Defog Digital Zoom Image Rotation Privacy Masking S/N Ratio Audio	Yes 16× 180° Up to 24 areas can be set, with up to 8 areas in the same view ≥ 55 dB G.711a; G.711Mu; G.722.1; G.726; MPEG2-Layer2; G.729;
Image StabilizationDefogDigital ZoomImage RotationPrivacy MaskingS/N RatioAudioAudio Compression	Yes 16× 180° Up to 24 areas can be set, with up to 8 areas in the same view ≥ 55 dB G.711a; G.711Mu; G.722.1; G.726; MPEG2-Layer2; G.729;
Image StabilizationDefogDigital ZoomImage RotationPrivacy MaskingS/N RatioAudioAudio CompressionNetwork	Yes 16× 180° Up to 24 areas can be set, with up to 8 areas in the same view ≥ 55 dB G.711a; G.711Mu; G.722.1; G.726; MPEG2-Layer2; G.729; G.723; PCM
Image StabilizationDefogDigital ZoomImage RotationPrivacy MaskingS/N RatioAudioAudio CompressionNetworkNetwork Port	Yes 16× 180° Up to 24 areas can be set, with up to 8 areas in the same view ≥ 55 dB G.711a; G.711Mu; G.722.1; G.726; MPEG2-Layer2; G.729; G.723; PCM RJ-45 (10/100Base-T) FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTP5; SIMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP;
Image StabilizationDefogDigital ZoomImage RotationPrivacy MaskingS/N RatioAudioAudio CompressionNetworkNetwork PortNetwork Protocol	Yes 16× 180° Up to 24 areas can be set, with up to 8 areas in the same view ≥ 55 dB G.711a; G.711Mu; G.722.1; G.726; MPEG2-Layer2; G.729; G.723; PCM RJ-45 (10/100Base-T) 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
Image Stabilization Defog Digital Zoom Image Rotation Image Rotation Privacy Masking S/N Ratio Audio Compression Audio Compression Network Network Port Network Protocol Interoperability	Yes 16× 180° Up to 24 areas can be set, with up to 8 areas in the same view ≥ 55 dB G.711a; G.711Mu; G.722.1; G.726; MPEG2-Layer2; G.729; G.723; PCM RJ-45 (10/100Base-T) FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SMMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP CGI; SDK; ONVIF (Profile S&G&T); P2P

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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	-30°C to +60°C (-22°F to +140°F)
Operating Humidity	≤ 95% (RH)
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95%
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		
	РҒМ900-Е	Integrated Mount Tester		

Accessories

Included:



Power Adapter

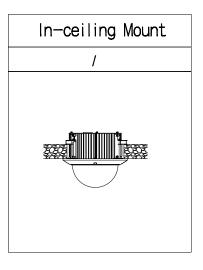
Optional:



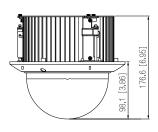


TF-P100 MicroSD Memory Card

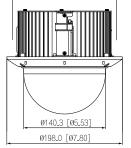
PFM900-E Integrated Mount Tester

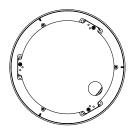


Dimensions (mm[inch])









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