



DH-SD52C225DB-HNY

2MP 25 Starlight Non Compensation Light 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

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

- · 1/2.8" 2Megapixel STARVIS™ CMOS.
- · 25x optical zoom.
- · Starlight technology.
- · Max. 25/30 fps@2MP.
- · Perimeter protection.
- · Face detection.
- · SMD 3.0
- · IK10.













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.

Protection (±25%, 6 kV)

Designed with ±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 3.0

Empowered by deep-learning algorithms, Dahua SMD filters out motion detection alarms triggered by targets that are not a concern. It quickly recognizes humans and vehicles, triggering alarms when an intrusion occurs.

Technical Specification		Face Detection	Supports face detection, capturing snapshots, enhancing face images, and face cutout is also
Camera			offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The
Image Sensor	1/2.8" CMOS		supported methods for capturing snapshots are real- time capturing and quality first.
Pixel	2 MP	SMD	SMD 3.0
Max. Resolution	1920 (H) × 1080 (V)	Auto Patrol	It triggers the IVS rule when a target is detected and makes the camera link with the PTZ to rotate to the
ROM	128 MB		position of the target and patrol based on its presets.
RAM	512 MB	Video	
Electronic Shutter Speed	1/1 s-1/30,000 s	Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream); Smart H.264+
Scanning System	Progressive	Streaming Capability	3 streams
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6	Resolution	1080P (1920×1080); 1.3M (1280×960); 720P (1280×720); D1 (704×576/704×480); VGA (640×480) CIF(352×288/352×240)
Lens			Main stream: 1080P/1.3M/720P@(1-25/30 fps)
Focal Length	4.8 mm-120 mm	Video Frame Rate	Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080P/1.3M/720P@(1-25/30 fps)
Max. Aperture	F1.6–F3.5	Bit Rate Control	CBR/VBR
Field of View	H: 58.5°–2.8°; V: 33.2°–1.5°; D: 67.5°–3.2°	Day/Night	Auto (ICR); Color; B/W
Optical Zoom	25 ×	BLC	Yes
Focus Control	Auto; semi-auto; manual	WDR	Yes
Close Focus Distance	0.1m-1.5m (0.33 ft-4.92 ft)	HLC	Yes
Iris Control	Auto; manual Detect Observe Recognize Identify	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
	1,655.2 m 653.8 m 331.0 m 165.5 m	Gain Control	Auto; manual
	(5,430.44 ft) (2,145.01 ft) (1,085.96 ft) (542.98 ft) *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For	Noise Reduction	2D NR; 3D NR
DORI Distance		Motion Detection	Yes
		Region of Interest (RoI)	Yes
	intelligent function distances, refer to installation and commissioning manual/project design tool.	Image Stabilization	Electronic (EIS)
PTZ		Defog	Electronic
	Pan: 0° to 360° endless; Tilt: 0° to +90°, auto flip 180° When the vertical field of view is between 0° and	Digital Zoom	16×
Pan/Tilt Range	7°, the image might present different degrees of ghosting.	Image Rotation	180°
Manual Control Speed	Pan: 0.1°/s-350°/s ; Tilt: 0.1°/s-250°/s	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; multiple colors available
Preset Speed	Pan: 500°/s; Tilt: 500°/s	S/N Ratio	≥ 55 dB
Preset	300	Audio	
Tour	8 (up to 32 presets per tour)	Audio Compression	PCM; G.711A; G.711MU; G.726; MPEG2-Layer2; G.722.1
Pattern	5	Network	
Scan	5	Network Port	RJ-45 (10/100 Base-T)
Power-off Memory	Yes		FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE;
Idle Motion	Pattern; Preset; Scan; Tour	Network Protocol NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UNFS; ICMP; UDP; IGMP; SMB; HTTP; SSL; DHCP; SIQos; RTSP; ARP	
PTZ Protocol	DH-SD	Interoperability	SDK; ONVIF (Profile S&G&T); CGI
Intelligence	Intelligence		Unicast; Multicast
IVS (Perimeter Protection)	Supports tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/	Streaming Method User/Host	20 (total bandwidth: 64 M)
	human alarm classification		

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Storage	Micro SD card (512 GB); FTP/SFTP; NAS
Browser	Web 5.0: IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions
Management Software	DMSS; DSS Pro
Mobile Client	iOS; Android

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	
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	24 VDC: Basic: 13 W Max: 16 W (PTZ) PoE+ (802.3at): Basic: 13 W Max: 15 W (PTZ)

Environment

Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)
Operating 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-SD52C225DB-HNY	2MP 25x In-ceiling 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

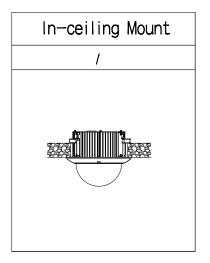
Optional:



TF-P100 MicroSD Memory Card



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

