



DH-SD2C400NA-B-PV-PRO

4MP WizColor WizSense Network PT Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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.

Series Overview

WizColor series cameras utilize groundbreaking technology to capture full-color images at night, overcoming the limitations of darkness. With advanced AI noise reduction and smart recognition, these cameras deliver images with rich colors and clear targets even in low light conditions, and eliminate motion blur in dynamic scenes. Whether in urban or rural settings, this series provides uninterrupted 24-hour high-definition intelligent monitoring for diverse environments.

Functions

WizColor Technology

Dahua WizColor Technology seamlessly combines with the powerful AI-ISP, large pixel size sensor and large aperture in cameras. This unique integration enables cameras to effortlessly capture high-quality images with vibrant colors during nighttime scenarios, ensuring fine details are preserved and minimizing motion blur. Unlike traditional self-illuminating cameras, Dahua WizColor Technology maximizes the utilization of weak light sources, such as moonlight and city lights reflected in the sky, delivering captivating full-color images of the entire scene. It also ensures that monitoring distances are not compromised at night due to limited illumination ranges, facilitating full-color image capture even over long distances.

- 1/1.8" 4Megapixel CMOS.
- · WizColor Technology.
- · Max. 25/30 fps@4MP.
- · H.265 Encoding.
- · SMD3.0.
- · Perimeter Protection.
- · Two-way Talk.
- · Auto Tracking Lite.
- · Tour.
- · IP66 protection.













AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

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						Intelligence	
Camera						Smart Tracking	Auto Tracking lite
Image Sensor 1/1.8" CMOS						SMD	SMD 3.0
Pixel	4 MP					Active Deterrence	
Max. Resolution	2560 (H) × 1440 (V)					Light Warning	Warm light warning Flash duration: 5 s-30 s;
ROM 256 MB							Flash frequency: high, medium, low
RAM 256 MB						supports importing custom voice content; So set from 0%–100%. Play times can be set from 1-10.	supports importing custom voice content; Sound can be
Electronic Shutter Speed 1 s-1/30,000 s							
Scanning System Progressive						Video	
0.0005 lux@E1.0 (Color 30 IRF)						Video Compression	Smart H.265+;H.265;Smart
Min. Illumination	0 lux (illuminator on)					·	H.264+;H.264B;H.264M;H.264H;MJPEG
Illumination Distance 4 mm: 30 m (164.04 ft) (Warm light)				ht)		Resolution	4M (2560 × 1440); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Illuminator On/Off Control Illuminator Number	Manual; a					Video Frame Rate	Main stream: 4M/1080p/720p@(1–25/30 fps)
	4 (warm light)				video Frame Rate	Sub stream 1: D1/VGA/CIF@(1–25/30 fps)	
Lens Focal Length	4				Bit Rate Control	CBR/VBR	
Max. Aperture	4 mm F1.0					Video Bit Rate	H264: 3,072 kbps–15,104 kbps H265: 1,280 kbps–9,216 kbps
Field of View	4 mm: H: 97°; V: 52°; D: 114°					Day/Night	Color/B/W
Close Focus Distance	4 mm: 2.6 m (8.53 ft)					BLC	Yes
	Lens	Detect	Observe	Recogniz	Identify	WDR	DWDR
	20115		0000110	е		HLC	Yes
DORI Distance	4 mm	70.34 m (230.45 ft)	28.14 m (92.24 ft)	14.07 m (46.16 ft)	7.03m (23.05 ft)	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
	*DORI (Detect, Observe, Recognize, Identify) is					Gain Control	Auto; manual
		, ,	N-62676-4 on viewing t) for definir	ng	Noise Reduction	2D NR; 3D NR
	to disting	uish persor	ns or object	s within a		Motion Detection	Yes
				his table do distances. F		Defog	Electronic
	_			efer to insta		Digital Zoom	16 x
and commissioning manual/project design tool. PTZ			Image Rotation	180°			
Pan/Tilt Range	Day 08 to 2458 Tile 08 to 1008				S/N Ratio	≥55 dB	
Manual Control Speed						Audio	
Preset Speed	Pan: 0.1°-34.5°/s; Tilt: 0.1°-36.4°/s					Audio Compression	PCM, G.711A, G.711Mu
Preset	Pan: 0.1°–33.8°/s; Tilt: 0.1°–36.3°/s					Built-in MIC	Yes
Tour	9 (up to 22 procests per tour)					Built-in Speaker	Yes
	8 (up to 32 presets per tour)					Network	
Idle Motion	Power-off Memory Yes Idle Motion Preset;Tour					Network Port	RJ-45 (10/100 Base-T)
Smart Event	r reset, loc	11					HTTP;HTTPS;TCP/ IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;IPv6;802.
IVS	Tripwire and intrusion				Network Protocol	1x;SSL;QoS;FTP;UPnP;ICMP;SNMP;IGMP;ARP;RTCP;RTP; PPPoE;RTMP;Bonjour;NFS	
Human Detection	Yes					Interoperability	ONVIF (Profile S & Profile G & Profile T);CGI;SDK
Vehicle Detection	Yes					Streaming Method	Unicast/Multicast
						User/Host	20 (total bandwidth: 64 M)

Storage	Micro SD card (Up to 256 GB); FTP		
Browser	IE: IE 7 and later versions; Chrome; Firefox; Safari		
Management Software	DMSS;5 Series NVR;DSS Pro		
Mobile Client	iOS;Android		
Function			
Abnormal Sound Alarm	Yes		
Certification			
Certifications	CE		
Port			
Audio Input	1 channel (built-in mic)		
Audio Output	1 channel (built-in speaker)		
Alarm Linkage	Capture; preset; recording; audio; sending email		
Alarm Event	Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection		
Power			
Power Supply	12 VDC, 1A ± 10% PoE (802.3af)		
Power Consumption	PoE: Basic: 3.6 W Max: 9.5 W (illuminator + PTZ)		
Power Adapter	Optional		
Environment			
Operating Temperature	−30 °C to +55 °C (−22 °F to +131 °F)		
Operating Humidity	≤95%		
Protection	TVS 2000 V lightning proof; surge protection; voltage transient protection; Waterproof and Dustproof		
Structure			
Product Dimensions	153.5 mm × Φ129.3 mm (6.04" × Φ5.09")		
Net Weight	0.66 kg (1.46 lb)		
Gross Weight	1 kg (2.20 lb)		

Ordering Information				
Туре	Model	Description		
NETWORK PT CAMERA	DH-SD2C400NA-B-PV-PRO	4MP WizColor WizSense Network PT Camera		

Installation

Wall Mounted	Ceiling Mounted		