

DH-SD2C405NB-GNY-A-PV-S2

4MP 5x Smart Dual Light WizSense Network PTZ Camera





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

With its powerful optical zoom, and accurate pan and tilt capabilities, the SD2C series camera has a wide monitoring range and produces highly detailed visuals. It supports two-way talk, allowing you to communicate with people in front of the camera in real time. It also records videos in full color, and uses Smart Dual Light to help produce vivid images, making it easy to obtain information on events, and reduce light pollution.

Functions

IVS

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

Two-way Talk

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way talk through the mobile app.

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the white light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in one voice, and supports customized voice importing.

- · 1/2.8" 4Megapixel CMOS
- · 5× optical zoom
- Max. 25/30 fps@4MP
- · IVS(Tripwire and Intrusion Detection)
- · Built-in Mic and Speaker for Two-way Talk
- · SMD 3.0
- Warm Light & Sound Warning
- Auto Tracking Lite







Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

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.

Technical Specification							Smart Event	
Camera						IVS	Tripwire and intrusion	
Image Sensor	1/2.8" CMOS						Human Detection	YES
Pixel	4 MP						Vehicle Detection	YES
Max. Resolution	2560 (H) × 1440 (V)						Intelligence	
ROM	128 MB						Smart Tracking	Auto Tracking Lite
RAM	128 MB						SMD	SMD 3.0
Electronic Shutter Speed	1 s-1/30,000 s						Active Deterrence	
Scanning System	Progressive						Light Warning	Warm light warning Flash duration: 5 s–30 s; Flash frequency: high,
Min. Illumination	0.05 lux@F1.6 (Color, 30 IRE); 0.005 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)						Sound Warning	medium, low Offers 1 sound alarm and supports importing 10 custom sound alarms.
Illumination Distance	30 m (98.43 ft) (warm light); 30 m (98.43 ft) (IR)						Sound Warring	Sound: 0–100 Play times can be set from 1 to 10.
Illuminator On/Off Control	Manual; auto; off						Video	
Illuminator Number	2 (IR light); 2 (warm light)						Video Compression	Smart H.265+; H.265; Smart H.264+; H.264B; H.264M;
Lens							video Compression	H.264H; MJPEG(Sub Stream 1)
Focal Length	2.7 mm-13.5 mm						Streaming Capability	2 streams
Max. Aperture Field of View	F1.6–F3.0 H: 96.73°–24.76°; V: 51.98°–13.91°; D: 110.58°–29.74°						Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960);720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 ×
Optical Zoom	5×							240)
Focus Control	Auto; Semi-auto; Manual						Video Frame Rate	Main stream: 4M/1080p/1.3M/720p@(1–25/30 fps) Sub stream 1: D1/VGA/CIF@(1–25/30 fps)
Close Focus Distance	0.6 m (1.97 ft)						Bit Rate Control	CBR/VBR
Iris Control	Fixed	Fixed					Video Bit Rate	H264: 96 kbps-8,192 kbps H265: 38 kbps-8,192 kbps
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Day/Night	Auto (ICR); Color/B/W
	2.7 mm- 13.5 mm	250 m (820.21 ft)	98.7 m (323.82 ft)	50 m (164.04 ft)	25 m (82.02 ft)		BLC	Yes
							WDR	120 dB
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video						HLC	Yes
							White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
	to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.						Gain Control	Auto; manual
							Noise Reduction	2D NR; 3D NR
							Motion Detection	Yes
PTZ							Region of Interest (RoI)	Yes
Pan/Tilt Range	Pan: 0° to 345°; Tilt: 0° to +90°						Image Stabilization	Electronic Image Stabilization (EIS)
Pan: 0.1°–74°/s;							Defog	Electronic
Manual Control Speed Fait: 0.1 = 74 /s; Tilt: 0.1°=36.4°/s							Digital Zoom	5.5x
Preset Speed	Pan: 0.1°-62°/s; Tilt: 0.1°-36.3°/s						Image Rotation	180°
Preset	300						S/N Ratio	≥55 dB
Power-off Memory	Yes						Audio	
Idle Motion	Preset						Audio Compression	PCM; G.711a; G.711Mu; G.726
							Built-in MIC	YES

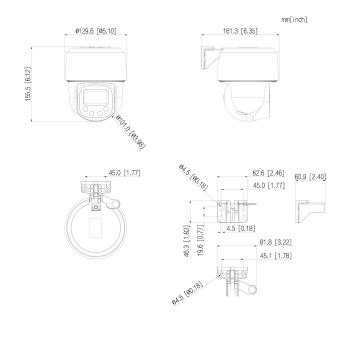
Built-in Speaker	YES		
Network			
Network Port	RJ-45 (10/100 Base-T)		
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; SSL; FTP; ARP; RTCP; RTP; IP Filter; RTMP		
Interoperability	ONVIF (Profile S & Profile G & Profile T);CGI;SDK;P2P		
Streaming Method	Unicast/Multicast		
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;DSS Pro		
Mobile Client	iOS;Android		
Certification			
Certifications	CE: EN55032/EN50130-4		
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, 1.5 A ± 10% PoE (802.3af)		
Power Consumption	Basic: 5 W; Max: 12.95 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	155.5 mm × Φ129.6 mm (6.12" × Φ5.10")		
Net Weight	0.65 kg (1.43 lb)		
Gross Weight	0.715 kg (1.58 lb)		
Filter			
Remarks	The precision of the presets for PTZ cameras might vary depending on different series. For scenes with high requirements on the precision, contact your local sales		

Ordering Information							
Туре	Model	Description					
Network PTZ Camera	DH-SD2C405NB-GNY-A-PV- S2	4MP 5x Smart Dual Light WizSense Network PTZ Camera					

Installation



Dimensions (mm[inch])



representative for assistance with selecting the model.