



DH-SD2C400NA-B-PV-PRO

4MP WizColor WizSense Network PT 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.

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 STARVIS[™] CMOS.
- · WizColor technology.
- Max. 25/30 fps@4MP.
- · H.265 encoding.
- · SMD3.0.
- · Perimeter protection.
- · Two-way Talk.
- · Auto Tracking(Lite).
- · Preset Patrol.
- · 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.

Camera	Technical Specification							Intelligence	
Mayor May								Smart Tracking	Auto Tracking lite
Max Resolution 250 pt = 140 pt								SMD	SMD 3.0
Main								Active Deterrence	
RoM									
RAM			1110(1)					Light Warning	
Sound Warning Sound Can be set from 09-100K, 8up reason the rest from 09-10K, 8up reason the rest from 0									
Scanning System								Sound Warning	·
Min.									Play times can be set from 1-10.
Manual Control Speed				or. 30 IRE):				Video	
Minimator On/off Control Manuals autoc off Manuals autoc off Sepolution Sepolut	Min. Illumination							Video Compression	
Segretary Segr	Illumination Distance	30 m (164	.04 ft) (Warı	m light)				Resolution	\times 720); D1 (704 \times 480); VGA (640 \times 480); CIF (352 \times
Video Frame Rate									
Proced Length		4 (warm li	ght)					Video Frame Rate	
Max. Aperture		4 mm						Bit Rate Control	
High of View High								Vide a Dit Data	H264: 3,072 kbps-15,104 kbps
Close Focus Distance 2.6 m (8.53 ft) Security Close Focus Distance 2.6 m (8.53 ft) Security Close Focus Distance Close Focus Distance Distance Provided Provide								video Bit Rate	H265: 1,280 kbps-9,216 kbps
Lens Detect Observe Recognize Identify MDR DWDR								Day/Night	Color/B/W
A mm 28.14 m 14.07 m 7.03 m 4 mm (230.45 (92.24 (46.16 (23.05 ft)) ft) ft) multiple	ologe i cous sistance	2.0 (0.0	3 10,					BLC	Yes
A mm (230.45 (92.24 (46.16 ft)) ft) ft) ft) ft) ft) ft) ft) ft) ft		Lens	Detect	Observe	Recognize	Identify		WDR	DWDR
DORI Distance ft ft ft ft ft ft ft f								HLC	Yes
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 intelligent function distances, refer to installation and commissioning manual/project design tool. PTZ Pan/Tilt Range Pan: 0** to 345*; Tilt: 0** to +90**		4 mm						White Balance	
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, refer to installation and commissioning manual/project design tool. PTZ Pan/Tilt Range Pan: 0* to 345*; Tilt: 0* to +90* Motion Detection Perset Speed Pan: 0.1*-74*/s; Tilt: 0.1*-36.4*/s Preset Speed Pan: 0.1*-62*/s; Tilt: 0.1*-36.4*/s Preset 300 Ruilt-in MIC Preset Solution Ruilt-in Speaker Power-off Memory Yes Network Idle Motion Preset; Tour Tripwire and intrusion Human Detection Yes Noise Reduction 2D NR; 3D NR Motion Detection Yes Lectronic Lectronic 16 x Limage Rotation 180* S/N Ratio S5/S dB Audio Audio Audio Preset Audio Compression PCM, G.711A, G.711Mu Preset Power-off Memory Yes Network Network Network Network Network Network Network Port RJ-45 (10/100 Base-T) Network-Protocol DNS; DNDS; IPv6; RDS; 2SSL; QoS; FTP; UPP.P; ICMP; SNMP, INTP; DHCP; DNS; DNDS; IPv6; ROS_1, 2SSL; QoS; FTP; UPP.P; ICMP; SNMP, INTP; DHCP; DNS; DNDS; IPv6; ROS_1, 2SSL; QoS; FTP; UPP.P; ICMP; SNMP, INTP, SNMP, IGMP, APP, RTCP, RTP; PPPdE; RTMP; Bonjour; NFS Vehicle Detection Ves Network Protocol Uniteroperability ONVIF (Profile S & Profile G & Profile T); CGI; SDK	DORI Distance	DORIDISTANCE						Gain Control	Auto; manual
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. PTZ Pan/Tilt Range Pan: 0° to 345°; Tilt: 0° to +90° Image Rotation 180° Pan/Tilt Range Pan: 0° to 345°; Tilt: 0° to +90° S/N Ratio 255 dB Manual Control Speed Pan: 0.1°—74°/s; Tilt: 0.1°—36.4°/s Audio Preset Speed Pan: 0.1°—62°/s; Tilt: 0.1°—36.4°/s Audio Preset Speed Pan: 0.1°—62°/s; Tilt: 0.1°—36.3°/s Audio Preset 300 Built-in MIC Yes Tour 8 (up to 32 presets per tour) Built-in Speaker Yes Power-off Memory Yes Network Idle Motion Preset, Tour Network Port RJ-45 (10/100 Base-T) Smart Event IVS Tripwire and intrusion Yes Webicle Detection Yes Interoperability ONVIF (Profile S & Profile G & Profile T);CGI;SDK		the ability	y of a perso	n viewing t	he video	.6		Noise Reduction	2D NR; 3D NR
intelligent function distances, refer to installation and commissioning manual/project design tool. PTZ Pan/Tilt Range Pan: 0° to 345°; Tilt: 0° to +90° S/N Ratio ≥55 dB Manual Control Speed Pan: 0.1°-74°/s; Tilt: 0.1°-36.4°/s Preset Speed Pan: 0.1°-62°/s; Tilt: 0.1°-36.3°/s Audio Preset 300 Built-in MIC Yes Tour 8 (up to 32 presets per tour) Built-in Speaker Yes Power-off Memory Yes Network Idle Motion Preset, Tour Network Protocol Preset, Tour Network Protocol DNS; DNS; PDNS; IPDNS;		_						Motion Detection	Yes
PTZ Image Rotation 180° Pan/Tilt Range Pan: 0° to 345°; Tilt: 0° to +90° S/N Ratio S/N Ratio S/S Ratio Audio Preset Seed Pen: 0.1*-62°/s; Tilt: 0.1*-36.4*/s Reset Seed Network Network Protocol DNS;DNS;lPv4;RTSP;UDP;SMTP;NTP;DHCP; DNS;DNS;lPv6;802.1x;SSL;QoS;FTP;UPnP;lCMP;SNMP [GMP;ARP;RTCP;RTP; PPPoE;RTMP;Bonjour;NFS Reset Seed S/N Ratio Audio Preset Seed Pan: 0.1*-62°/s; Tilt: 0.1*-36.4*/s Audio Network Reset Seed Network Network Protocol DNS;DNS;lPv6;802.1x;SSL;QoS;FTP;UPnP;lCMP;SNMP [GMP;ARP;RTCP;RTP; PPPoE;RTMP;Bonjour;NFS Reset Seed S/S Ratio Audio Preset Seed Pan: 0.1*-62°/s; Tilt: 0.1*-36.4*/s Reset Seed Network Reset Seed Reset Seed Network Reset Seed S/S Reset Seed Reset Seed S/S Reset Seed Reset			_					Defog	Electronic
Pan/Tilt Range Pan: 0° to 345°; Tilt: 0° to +90° S/N Ratio ≥55 dB Manual Control Speed Pan: 0.1°-74°/s; Tilt: 0.1°-36.4°/s Audio Preset Speed Pan: 0.1°-62°/s; Tilt: 0.1°-36.3°/s Audio Compression PCM, G.711A, G.711Mu Preset 300 Built-in MIC Yes Tour 8 (up to 32 presets per tour) Built-in Speaker Yes Power-off Memory Yes Network Idle Motion Preset; Tour Network Port RJ-45 (10/100 Base-T) Smart Event IVS Tripwire and intrusion Network Protocol DNS; DDNS; IPVG; 802.1x; SSL; QoS; FTP; UPNP; ICMP; SNMP IGMP; ARP; RTCP; SDK Vehicle Detection Yes Interoperability ONVIF (Profile S & Profile G & Profile T); CGI; SDK	,					Digital Zoom	16 x		
Manual Control Speed Pan: 0.1°-74°/s; Tilt: 0.1°-36.4°/s Preset Speed Pan: 0.1°-62°/s; Tilt: 0.1°-36.3°/s Audio Compression PCM, G.711A, G.711Mu Preset 300 Built-in MIC Yes Tour 8 (up to 32 presets per tour) Built-in Speaker Yes Power-off Memory Yes Network Idle Motion Preset; Tour Network Port RJ-45 (10/100 Base-T) Smart Event IVS Tripwire and intrusion Network Protocol DNS; DDNS; IPv6;802.1x; SSL; QoS; FTP; UPnP; ICMP; SMMP, IGMP; ARP; RTCP; RTP; PPPo£; RTMP; Bonjour; NFS Vehicle Detection Yes Interoperability ONVIF (Profile S & Profile T); CGI; SDK	PTZ							Image Rotation	180°
Preset Speed Pan: 0.1°-62°/s; Tilt: 0.1°-36.3°/s Audio Compression PCM, G.711A, G.711Mu Preset 300 Built-in MIC Yes Tour 8 (up to 32 presets per tour) Built-in Speaker Yes Power-off Memory Yes Network Idle Motion Preset; Tour Network Port RJ-45 (10/100 Base-T) Smart Event IVS Tripwire and intrusion Network Protocol DNS; DDNS; IPv6;802.1x; SSL; QoS; FTP; UPnP; ICMP; SNMP, IGMP; ARP; RTCP; RTP; PPPoE; RTMP; Bonjour; NFS Vehicle Detection Yes Interoperability ONVIF (Profile S & Profile G & Profile T); CGI; SDK	Pan/Tilt Range	Pan: 0° to	Pan: 0° to 345°; Tilt: 0° to +90°					S/N Ratio	≥55 dB
Preset 300 Built-in MIC Yes Tour 8 (up to 32 presets per tour) Built-in Speaker Yes Power-off Memory Yes Network Idle Motion Preset; Tour Network Port RJ-45 (10/100 Base-T) Smart Event IVS Tripwire and intrusion Network Protocol DNS; DDNS; IPV6;802.1x; SSL; QoS; FTP; UPNP; ICMP; SNMP, IGMP; ARP; RTCP; RTP; PPPoE; RTMP; Bonjour; NFS Vehicle Detection Yes Interoperability ONVIF (Profile S & Profile G & Profile T); CGI; SDK	Manual Control Speed	Pan: 0.1°-74°/s; Tilt: 0.1°-36.4°/s						Audio	
Tour 8 (up to 32 presets per tour) Built-in Speaker Yes Network Idle Motion Preset;Tour Smart Event IVS Tripwire and intrusion Human Detection Yes Vehicle Detection Yes Built-in Speaker Network Network Network Network Network Port Network Protocol DNS;DDNS;IPv4;RTSP;UDP;SMTP;NTP;DHCP; DNS;DDNS;IPv6;802.1x;SSL;QoS;FTP;UPnP;ICMP;SNMP, IGMP;ARP;RTCP;RTP; PPPoE;RTMP;Bonjour;NFS Vehicle Detection Yes ONVIF (Profile S & Profile G & Profile T);CGI;SDK	Preset Speed	Pan: 0.1°-62°/s; Tilt: 0.1°-36.3°/s						Audio Compression	PCM, G.711A, G.711Mu
Power-off Memory Yes Network Idle Motion Preset;Tour Network Port Network Port Network Port HTTP;HTTPS;TCP/IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP; IVS Tripwire and intrusion Network Protocol DNS;DDNS;IPv6;802.1x;SSL;QoS;FTP;UPnP;ICMP;SNMP, IGMP;ARP;RTCP;RTP; PPPoE;RTMP;Bonjour;NFS Vehicle Detection Yes Interoperability ONVIF (Profile S & Profile G & Profile T);CGI;SDK	Preset	300						Built-in MIC	Yes
Idle Motion Preset;Tour Network Port RJ-45 (10/100 Base-T) Smart Event IVS Tripwire and intrusion Network Protocol Pulpy (Profile S & Profile G & Profile T);CGI;SDK Vehicle Detection Yes Network Port RJ-45 (10/100 Base-T) Network Protocol Pulpy (10/100 Base-T) Network Protocol Pu	Tour	8 (up to 32 presets per tour)						Built-in Speaker	Yes
Smart Event IVS Tripwire and intrusion Human Detection Yes Network Protocol Network Protocol Network Protocol DNS;DDNS;IPv6;802.1x;SSL;QoS;FTP;UPnP;ICMP;SNMP, IGMP;ARP;RTCP;RTP; PPPoE;RTMP;Bonjour;NFS Interoperability ONVIF (Profile S & Profile G & Profile T);CGI;SDK	Power-off Memory Yes						Network		
Network Protocol Network Prot	Idle Motion	Preset;Tour						Network Port	RJ-45 (10/100 Base-T)
IVS Tripwire and intrusion Network Protocol DNS;DNS;IPV6;802.1x;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	Smart Event							HTTP:HTTPS:TCP/IP:IPv4:RTSP:UDP-SMTP-NTP-DHCP-	
Human Detection Yes Vehicle Detection Yes Interoperability ONVIF (Profile S & Profile G & Profile T);CGI;SDK	IVS	Tripwire and intrusion						Network Protocol	DNS;DDNS;IPv6;802.1x;SSL;QoS;FTP;UPnP;ICMP;SNMF
Venicie Detection Yes Yes	Human Detection	Yes						Interoperability	
	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)

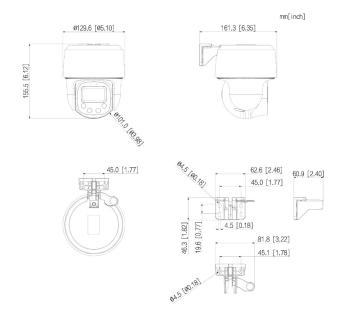
Ordering Information					
Туре	Model	Description			
NETWORK PT CAMERA	DH-SD2C400NA-B-PV-PRO	4MP WizColor WizSense Network PT Camera			

1 kg (2.20 lb)

Installation

Wall Mounted	Ceiling Mounted

Dimensions (mm[inch])



Gross Weight