

DH-SD3A400-GNP-B-PV

4MP Full-color Active Deterrence WizSense Network PT 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

The camera delivers 4MP resolution at 25/30 fps, and has very excellent low light performance due to the latest starlight technology. SD3A series is equipped with smooth control, high-quality image and good protection, which makes it meet small and medium-sized video surveillance applications.

Functions

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 Lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Environment

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -30° C to $+60^{\circ}$ C (-22° F to $+140^{\circ}$ F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

- 1/2.8" 4Megapixel STARVIS™ CMOS
- Starlight technology
- 120 dB true WDR, 3D DNR
- Max. 25/30 fps@4M, 25/30 fps@1080p
- IP66
- PoE



Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.



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Technical Specification

Camera

Carriera				
Image Sensor	1/2.8" STARVIS™ CMOS			
Pixel	2560 (H) x 1440 (V)			
Max. Resolution	4MP			
ROM	256 MB			
RAM	512 MB			
Electronic Shutter Speed	1/3 s-1/100,000 s			
Scanning System	Progressive			
Min. Illumination	Color: 0.005 Lux@F1.0 B/W: 0.0005 Lux@F1.0 0 Lux (illuminator on)			
Illumination Distance	30 m (98.43 ft)			
Illuminator On/Off Control	Auto; Manual; Off			
Illuminator Number	2 white lights			
Lens				
Focal Length	4 mm			
Max. Aperture	F1.0			
Field of View	H: 76.9°; V: 41.8°; D: 92°			
Close Focus Distance	2 m (6.56 ft)			
Iris Control	Fixed			
DORI Distance	Detect	Observe	Recognize	Identify
	79.9 m (262.14 ft)	31.9 m (104.66 ft)	15.7 m (51.51 ft)	7.4 m (24.28 ft)

PTZ

Pan/Tilt Range	Pan: 0° to 355° Till: –15° to +90°
Manual Control Speed	Pan: 0.1°/s-80°/s Tilt: 0.1°/s-56°/s
Preset Speed	Pan: 81°/s; Tilt: 43°/s
Preset	300
Power-off Memory	Yes
Idle Motion	Preset
General Intelligence	
Event Trigger	Motion detection, video tampering, network disconnection, IP address conflict, illegal access, and storage anomaly
Artificial Intelligence	
Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
Video	
Compression	H.265; H.264B; H.264H; MJPEG (Sub Stream); H.265+; H.264+
Streaming Capability	3 streams

Resolution	4M (2560 × 1440); 1080p (1920 × 1080); 1.3M (1280 ×	
	960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288)	
Frame Rate	Main stream: 4M (1–25/30 fps) 1080P/1.3M/720P (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080P/1.3M/720p (1–25/30 fps) D1/CIF (1–25/30 fps)	
Bit Rate Control	Variable; Constant	
Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 32 Kbps–8192 Kbps	
Day/Night	Yes	
BLC	Yes	
WDR	120 dB	
HLC	Yes	
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural; street lamp	
Gain Control	Auto; Manual	
Noise Reduction	2D/3D	
Motion Detection	Yes	
Region of Interest (RoI)	Yes	
Defog	Electronic	
Flip	0°; 180°	
S/N Ratio	≥ 55 dB	
Audio		
Compression	G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G722.1	
Network		
Ethernet	RJ-45 (10/100Base-T)	
Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; QoS; FTP; SMTP; UPnP; SNMP v1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCP	
Interoperability	ONVIF Profile S&G&T CGI	
Streaming Method	Unicast; multicast	
User/Host	20 (total bandwidth: 48 MB)	
Storage	FTP; Micro SD card (512 GB); NAS	
Browser	IE7 and later versions Chrome 42 and later versions Firefox 52 and later versions Safari	
Management Software	DMSS; DSS	
Mobile Phone	iOS; Android	
Certification		
Certifications	CE: EN55032/EN55024/EN50130-4/EN55035/EN61000- 3-2/EN61000-3-3/EN62368-1 FCC: Part15 subpartB	
Port		
Audio Input	1 (built-in Mic)	
Audio Output	1 (built-in speaker)	



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Two-way Audio	Yes
Alarm Linkage	Capture; preset; SD card record; send email
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; encoder state detection; memory card state detection; memory space detection
Power	
Power Supply	12V DC/1.5A ± 10% PoE (802.3af)
Power Consumption	Basic: 4.6W Max: 9.2W (illuminator on)
Environment	
Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Operating Humidity	≤ 95%RH
Protection	IP66; TVS 2000V lightning proof; surge protection; voltage transient protection
Structure	
Casing	Plastic
Dimensions	271.7 mm × 124.1 mm × 142.5 mm (10.70" × 4.89" × 5.61")
Net Weight	1 kg (2.20 lb)
Gross Weight	1.46 kg (3.22 lb)

Ordering Information

Туре	Part Number	Description
4MP Camera SD:	DH-SD3A400-GNP-B-PV	4MP Full-color Active Deterrence WizSense Network PT Camera, PAL
	DH-SD3A400N-GNP-B-PV	4MP Full-color Active Deterrence WizSense Network PT Camera, NTSC
	SD3A400-GNP-B-PV	4MP Full-color Active Deterrence WizSense Network PT Camera, PAL
	SD3A400N-GNP-B-PV	4MP Full-color Active Deterrence WizSense Network PT Camera, NTSC
Accessories	12V DC/1.5A	Power Adapter

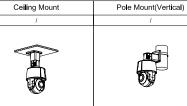
Accessories

Included:

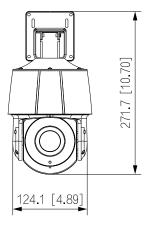


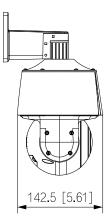
12V DC/1.5A Power Adapter

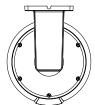
Wall Mount



Dimensions (mm[inch])







Rev 001.001

