

DH-SD3A205-GNP-PV

2MP Starlight IR AI WizSense Network PTZ Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Starlight technology
- · IR distance up to 30 m
- · Deep-learning-based perimeter protection
- · SMD Plus
- · PoE
- · IP66



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

Designed with H.265 coding technology, Dahua Starlight series camera has efficient video coding capability, which can save bandwidth and storage space. The product adopts the latest starlight technology to display better color images under low-light conditions.

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 °C (-22 °F to +140 °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.

SMD Plus

With Deep-Learning Algorithm, Dahua SMD Plus filters the motion detection alarm triggered by non-concerned target and recognizes human and vehicle effectively, sending alarms when human and vehicle intrude.

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		Frame Rate	Main stream: 1080P (1–25/30 fps); 1.3M (1–25/30 fps); 720P (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps)		
Camera	1/2 0" CMOS				Sub stream 2: 1080P (1–25/30 fps); 1.3M (1–25/30 fps); 720P (1–25/30 fps)
Image Sensor Pixel	1/2.8" CMOS 2MP			Bit Rate Control	Variable/Constant
Max. Resolution	1920 (H) × 1080 (V)			Bit Rate	H.264: 3 Kbps–20480 Kbps H.265: 3 Kbps–20480 Kbps
ROM	256 MB			Day/Night	Auto (ICR)
RAM	512 MB			BLC	Support
				WDR	DWDR
Electronic Shutter Speed	1/3 s-1/100000 s			HLC	Support
Scanning System	Progressive Color: 0.002 Lux@F1.8			White Palance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium
Min. Illumination	B/W: 0.0002 Lux@F1.8 0 Lux (illuminator on)			White Balance Gain Control	lamp/Natural light/Street lamp Auto/Manual
Illumination Distance	30 m (98.43 ft)			Noise Reduction	2D/3D
Illuminator On/Off Control	Manual/SmartIR/Off			Motion Detection	Support
Illuminator Number	4 IR lights; 1 white light			Region of Interest (RoI)	Support
Lens				Defog	Electronic
Focal Length	2.7 mm-13.5 mm			-	180°
Max. Aperture	F1.8-F3.3			Flip	
Field of View	H: 101.6°-33.5°; V: 52°-18.7°; D: 124.7°-38.5°			S/N Ratio	≥ 55 dB
Optical Zoom	5x			Audio	C 711a; C 711Mu; C 726; AAC; MDEC2 Layer2;
Focus Control	Auto/Semi-Auto/Manual			Compression	G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G722.1; G729; G723
Close Focus Distance	1.2 m (3.94 ft)			Network	
Iris Control	Fixed			Ethernet	RJ-45 (10/100Base-T)
DORI Distance	Detect Observe 131 m 52.3 m (429.79 ft) (171.59 ft)	Recognize 26 m (85.30 ft)	12.8 m (41.99 ft)	Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; QoS; FTP; SMTP; UPnP; SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; SNMP v1/v2c/v3 (MIB-2); RTCP; RTMP
PTZ	(429.7911) (171.3911)	(63.30 11)	(41.9911)	Interoperability	ONVIF Profile S&G&T CGI
Pan/Tilt Range	Pan: 0°–355°			Streaming Method	Unicast/Multicast
	Tilt: -15°-+90° Pan: 0.1°/s-80°/s			User/Host	20 (total bandwidth: 64 M)
Manual Control Speed	Tilt: 0.1°/s-56°/s			Storage	FTP; Micro SD card (256 G); NAS
Preset Speed Preset	Pan: 81°/s; Tilt: 43°/s 300				IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari
Power-off Memory	Support			Browser	
Idle Motion				Management Software	DMSS
Artificial Intelligence				Mobile Phone	iOS, Android
Tripwire and intrusion. Support alarm triggering by				Certification	103,71141014
Perimeter Protection target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.					CE: EN55032/EN55024/EN50130-4/EN 55035/EN
Video				Certifications	61000-3-2/EN 61000-3-3/EN 62368-1 FCC: Part15 subpartB, ANSI C63.4-2014
Compression	Compression H.265; H.264B; H.264H; H.264H; MJPEG; MJPEG (Sub Stream); H.265+; H.264+			Port	
Streaming Capability	3 streams			Audio Input	1 (Built-in Mic)
	1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280			Audio Output	1 (Built-in Speaker)
Resolution	, , , , , , , , , , , , , , , , , , , ,			Two-way Audio	Support



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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/2A ± 10% (supports PoE)	
Power Consumption	Basic: 5W Max: 12W (illuminator on)	
Power Adapter	Included	
Environment		
Operating Temperature	-30°C to +60°C (-22°F to 140°F)	
Operating Humidity	≤ 95%	
Protection	IP66; TVS 2000V lightning proof; surge protection; voltage transient protection	

Struc	ture

Dimensions	271.7 mm × 142.5 mm × 124.1 mm (10.70" × 5.61" × 4.89")
Net Weight	1.1 kg (2.43 lb)
Gross Weight	1.51 kg (3.33 lb)

Ordering Information				
Туре	Model	Description		
2M Camera	DH-SD3A205-GNP-PV	2MP Starlight IR Al Wizsense Network PTZ Camera, PAL		
	DH-SD3A205N-GNP-PV	2MP Starlight IR Al Wizsense Network PTZ Camera, NTSC		
	SD3A205-GNP-PV	2MP Starlight IR Al Wizsense Network PTZ Camera, PAL		
	SD3A205N-GNP-PV	2MP Starlight IR AI Wizsense Network PTZ Camera, NTSC		
Accessories	PoE/DC12V 2A	Power Adapter		

Accessories

Included:



Power Adapter	

Wall Mount	Ceiling Mount	Pole Mount(Vertical)
1	1	/

Dimensions (mm)





