



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













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.



Technical Specification						Main stream: 1080P (1–25/30 fps); 1.3M (1–25/30 fps); 720P (1–25/30 fps)
Camera					Frame Rate	Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080P (1–25/30 fps); 1.3M (1–25/30
Image Sensor	1/2.8" CMOS				Bit Rate Control	fps); 720P (1–25/30 fps) Variable/Constant
Pixel	2MP					H.264: 3 Kbps–20480 Kbps
Max. Resolution	1920 (H) × 1	.080 (V)			Bit Rate	H.265: 3 Kbps–20480 Kbps
ROM	256 MB				Day/Night	Auto (ICR)
RAM	512 MB				BLC	Support
Electronic Shutter Speed	1/3 s-1/100000 s				WDR	DWDR
Scanning System	Progressive				HLC	Support
Min. Illumination	Color: 0.002 B/W: 0.0002 0 Lux (illumi	2 Lux@F1.8			White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/Natural light/Street lamp
Illumination Distance	30 m (98.43				Gain Control	Auto/Manual
Illuminator On/Off Control	Manual/Sma	,			Noise Reduction	2D/3D
Illuminator Number	4 IR lights; 1	,			Motion Detection	Support
	4 IN lights, 1	willte light			Region of Interest (RoI)	Support
Lens	2.7 mm 12	Γ 100 100			Defog	Electronic
Focal Length	2.7 mm-13.5 mm				Flip	180°
Max. Aperture	F1.8-F3.3				S/N Ratio	≥ 55 dB
Field of View	H: 101.6°-33.5°; V: 52°-18.7°; D: 124.7°-38.5°				Audio	
Optical Zoom Focus Control	5x 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 131 m	Observe	Recognize	Identify	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
DT7	(429.79 ft)	(171.59 ft)	(85.30 ft)	(41.99 ft)	Interoperability	ONVIF Profile S&G&T CGI
PTZ	Pan: 0°-355	Pan: 0°-355°			Streaming Method	Unicast/Multicast
Pan/Tilt Range		Tilt: -15°-+90°			User/Host	20 (total bandwidth: 64 M)
Manual Control Speed	Pan: 0.1°/s–80°/s Tilt: 0.1°/s–56°/s				Storage	FTP; Micro SD card (256 G); NAS
Preset Speed	Pan: 81°/s; T	Γilt: 43°/s				IE7 and later versions
Preset	300				Browser	Chrome 42 and earlier versions Firefox 52 and earlier versions
Power-off Memory	Support					Safari
Idle Motion	Preset				Management Software	DMSS
Artificial Intelligence Tripwire and intrusion. Support alarm triggering by				riggering by	Mobile Phone	iOS, Android
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.				Certification	CE: EN55032/EN55024/EN50130-4/EN 55035/EN
Video						61000-3-2/EN 61000-3-3/EN 62368-1 FCC: Part15 subpartB, ANSI C63.4- 2014
Compression	H.265; H.264B; H.264M; 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 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)				352 × 288/352	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		
Structure			
Structure Dimensions	271.7 mm × 142.5 mm × 124.1 mm (10.70" × 5.61" × 4.89")		

Ordering Information							
Туре	Model	Description					
	DH-SD3A205-GNP-PV	2MP Starlight IR Al Wizsense Network PTZ Camera, PAL					
2M Camera	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					

1.51 kg (3.33 lb)

Gross Weight

Accessories

Included:



DC12V/2A Power Adapter

Wall Mount	Ceiling Mount	Pole Mount(Vertical)
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Dimensions (mm)





