

DH-SD3D216NB-GNY

2MP 16x IR WizSense Network PTZ Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and soluEons 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 soluEons.

Series Overview

With its powerful opEcal zoom and accurate pan, Elt, and zoom funcEons, the SD3D series camera provides an all-in-one soluEon for long distance video surveillance in outdoor settings. Their small and compact design make them easy to install. They are also compaEble with IR illuminators, making them great for use in dark and low-light condiEons.

FuncEons

Starlight Technology

Dahua Starlight technology uElizes advanced image processing and opEcal technologies to deliver clear videos, even in low-lighEng environments. This technology is extensively employed across a range of seGings that have inadequate lighEng.

SMD 3.0

Empowered by deep-learning algorithms, Dahua SMD filters out moEon detecEon alarms triggered by targets that are not a concern. It quickly recognizes humans and vehicles, triggering alarms when an intrusion occurs.

IVS

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

- 1/2.8" 2Megapixel CMOS
- 16x opEcal zoom
- Starlight technology
- Max. 25/30 fps@1080P
- IR distance up to 80 m
- IVS(Human/Vehicle DetecEon)
- SMD 3.0
- IP66
- Smart Light +



ProtecEon (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protecEon, and voltage transient protecEon.

Smart H.265+ & Smart H.264+

With advanced scene-adapEve 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.

Smart Light+

Equipped with advanced LEDs and beam processing technology, the camera effecEvely reduces interference of stray light, ensuring concentrated illuminaEon within the lens's field of view. This allows the camera to easily produce clear images that reveal the fine details of targets even in low light condiEons.

Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighEng condiEons, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighEng, WDR adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

Wiz Sense | DH-SD3D216NB-GNY

Technical SpecificaEon

PTZ Protocol

DH-SD

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Camera						
Image Sensor	1/2.8" CM	1/2.8" CMOS				
Pixel	2 MP	2 MP				
Max. ResoluEon	1920 (H) ×	1080 (V)				
ROM	128 MB					
RAM	128 MB					
Electronic ShuĢer Speed	1 s-1/30,0	1 s-1/30,000 s				
Scanning System	Progressive					
Min. IlluminaEon	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)					
IlluminaEon Distance	80 m (262	80 m (262.47 Ó) (IR)				
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off					
Illuminator Number	3 (IR)					
Lens						
Focal Length	5.0 mm–80 mm					
Max. Aperture	F1.6-F3.5					
Field of View	H: 54.4°-4.1° ; V: 31.4°-2.3°; D: 61.3°-4.7°					
OpEcal Zoom	16×					
Focus Control	Auto; Semi-auto; Manual					
Close Focus Distance	0.1 m–1 m (0.33 Ó–3.28 Ó)					
Iris Control	Fixed					
	Lens	Detect	Observe	Recognize	IdenEfy	
	5.0 mm– 80 mm	1,103.4 m (3,620.0 8 Ó)	435.9 m (1,430.1 2 Ó)	220.7 m (724.08 Ó)	110.3 m (361.88 Ó)	
DORI Distance	*DORI (Detect, Observe, Recognize, IdenEfy) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to disEnguish persons or objects within a covered area. The numbers in this table do not reflect intelligent funcEon distances. For intelligent funcEon distances, refer to installaEon and commissioning manual/project design tool.					
PTZ						
Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: –15° to +90°, auto flip 180°					
Manual Control Speed	Pan: 0.1°-40°/s; Tilt: 0.1°-40°/s					
Preset Speed	Pan: 0.1°-40°/s; Tilt: 0.1°-40°/s					
Preset	300					
Power-off Memory	Yes	Yes				
Idle MoEon	Preset					
DT7 Drotocol						

Smart Event	
IVS	Tripwire; intrusion
Intelligence	, , , , , , , , , , , , , , , , , , , ,
SMD	SMD 3.0
Video	
Video Compression	Smart H.265+;H.265;Smart
Video Compression	H.264+;H.264B;H.264M;H.264H;MJPEG(Sub Stream 1)
Streaming Capability	2 streams
ResoluEon	1080p (1920 × 1080); 1.3MP (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Video Frame Rate	Main stream: 1080p/1.3M/720p @(1-25/30 fps) Sub stream: D1/VGA/CIF@ (1-25/30 fps)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 64 kbps-8,192 kbps H.265: 25 kbps-6,400 kbps
Day/Night	Auto (ICR); Color/B/W
BLC	Yes
WDR	120 dB
HLC	Yes
White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; manual
Noise ReducEon	2D NR; 3D NR
MoEon DetecEon	Yes
Region of Interest (RoI)	Yes
Defog	Electronic Image StabilizaEon (EIS)
Digital Zoom	5×
Image RotaEon	180°
S/N RaEo	≥55 dB
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	CGI;SDK;ONVIF (Profile S & Profile T)
Streaming Method	Unicast/MulEcast
User/Host	20 (total bandwidth: 64 M)
Storage	Micro SD card (256 GB); FTP
Browser	IE 7 and later versions; All Chrome versions; All Firefox versions; All Safari versions
Management SoÓware	DSS Pro
Mobile Client	iOS;Android

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CerEficaEon CerEficaEons CE: EN55032/EN55024/EN50130-4 Port Alarm Linkage Capture; recording; send email MoEon/tampering detecEon; network disconnecEon detecEon; IP conflict detecEon; memory card state Alarm Event detecEon; memory space detecEon Power 12 VDC, 2 A ± 10% Power Supply PoE+ (802.3at) Basic: 8 W Power ConsumpEon Max. (Basic power consumpEon + WDR + intelligence on + IR on + PTZ operaEon + Heater): 18 W (12 VDC) Power Adapter OpEonal Environment OperaEng Temperature -30 °C to +60 °C (-22 °F to +140 °F) OperaEng Humidity ≤95% IP66;TVS 6000 V lightning proof; surge protecEon; ProtecEon voltage transient protecEon Structure 240 mm × Φ151.5 mm (9.45" × Φ5.94") Product Dimensions 1.5 kg (3.31 lb) Net Weight 2.5 kg (5.51 lb) Gross Weight Filter The precision of the presets for PTZ cameras might vary depending on different series. For scenes with high Remarks requirements on the precision, contact your local sales representaEve for assistance with selecEng the model.

Ordering InformaEon

Туре	Model	DescripEon	
Network PTZ Camera	DH-SD3D216NB-GNY	2MP 16x IR WizSense Network PTZ Camera	
Accessories	PFB5310W	Wall Mount Bracket	
	DH-PFB300C	Ceiling Mount Bracket	
	PFA7711	Mount Adapter	
	DH-PFA150	Pole Mount Bracket	
	DH-PFA156	Pole Mount Bracket	
	DH-PFA121	Water-proof JuncEon Box	

Accessories

Included:



Wall Mount Bracket

OpEonal:







DH-PFB300C Ceiling Mount Bracket

PFA7711 Mount Adapter

DH-PFA150 Pole Mount Bracket



DH-PFA156 Pole Mount Bracket

DH-PFA121 Water-proof JuncEon Box







Dimensions (mm[inch])



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