



DH-SD3D216NB-GNY

2MP 16x IR WizSense Network PTZ 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.

Series Overview

With its powerful optical zoom and accurate pan, tilt, and zoom functions, the SD3D series camera provides an all-in-one solution for long distance video surveillance in outdoor settings. Their small and compact design make them easy to install. They are also compatible with IR illuminators, making them great for use in dark and low-light conditions.

Functions

Starlight Technology

Dahua Starlight technology utilizes advanced image processing and optical technologies to deliver clear videos, even in low-lighting environments. This technology is extensively employed across a range of settings that have inadequate lighting.

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.

IVS

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

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















Protection (IP66, TVS 6000 V)

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

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.

Smart Light+

Equipped with advanced LEDs and beam processing technology, the camera effectively reduces interference of stray light, ensuring concentrated illumination 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 conditions.

Wide Dynamic Range

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

Technical Specification	n						Smart Event	
Camera						IVS	Tripwire; intrusion	
Image Sensor	1/2.8" CMOS						Intelligence	
Pixel	2 MP						Smart Tracking	Auto Tracking 1.0
Max. Resolution	1920 (H) × 1080 (V)						SMD	SMD 3.0
ROM	128 MB						Video	
RAM	128 MB						Video Compression	Smart H.265+;H.265;Smart H.264+;H.264B;H.264M;H.264H;MJPEG(Sub Stream 1)
Electronic Shutter Speed	1 s-1/30,000 s						Streaming Capability	2 streams
Scanning System	Progressive							1080p (1920 × 1080); 1.3MP (1280 × 960); 720p (1280
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)						Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) Main stream: 1080p/1.3M/720p @(1–25/30 fps)
Illumination Distance	80 m (262.47 ft) (IR)						Video Frame Rate	Sub stream: D1/VGA/CIF@ (1–25/30 fps)
Illuminator On/Off Control	Zoom Prio;	: Manual; Au	uto; Off				Bit Rate Control	CBR/VBR
Illuminator Number	3 (IR)	3 (IR)					Video Bit Rate	H.264: 64 kbps–8,192 kbps H.265: 25 kbps–6,400 kbps
Lens							Day/Night	Auto (ICR); Color/B/W
Focal Length	5.0 mm-80 mm						BLC	Yes
Max. Aperture	F1.6–F3.5						WDR	120 dB
Field of View	H: 54.4°-4.1° ; V: 31.4°-2.3°; D: 61.3°-4.7°						HLC	Yes
Optical Zoom	16×						White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
Focus Control	Auto; Semi	Auto; Semi-auto; Manual					Gain Control	Auto; manual
Close Focus Distance	0.1 m-1 m (0.33 ft-3.28 ft)						Noise Reduction	2D NR; 3D NR
Iris Control	Fixed						Motion Detection	Yes
	Lens	Detect	Observe	Recognize	Identify		Region of Interest (RoI)	Yes
	5.0 mm- 80 mm	1,103.4 m (3,620.0	435.9 m (1,430.1 2 ft)	220.7 m (724.08 ft)	110.3 m (361.88 ft)		Defog	Electronic Image Stabilization (EIS)
							Digital Zoom	5×
		8 ft)	·				Image Rotation	180°
DORI Distance			_	nize, Identif) for definir			S/N Ratio	≥55 dB
			n viewing t				Network	
	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.						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
PTZ	D 001						Interoperability	CGI;SDK;ONVIF (Profile S & Profile T)
Pan/Tilt Range		Pan: 0° to 360° endless; Tilt: –15° to +90°, auto flip 180°					Streaming Method	Unicast/Multicast
Manual Control Speed	Pan: 0.1°–40°/s; Tilt: 0.1°–40°/s						User/Host	20 (total bandwidth: 64 M)
Preset Speed	Pan: 0.1°-40°/s; Tilt: 0.1°-40°/s						Storage	Micro SD card (256 GB); FTP
Preset	300							IE 7 and later versions;
Tour Rower off Memory		presets pe	tour)				Browser	All Chrome versions; All Firefox versions;
Power-off Memory Idle Motion	Yes						Management Software	All Safari versions
	Preset						Management Software	DSS Pro
PTZ Protocol	DH-SD						Mobile Client	iOS;Android

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

Ordering Information				
Туре	Model	Description		
Network PTZ Camera	DH-SD3D216NB-GNY	2MP 16x IR WizSense Network PTZ Camera		
	PFB5310W	Wall Mount Bracket		
	DH-PFB300C	Ceiling Mount Bracket		
	PFA7711	Mount Adapter		
Accessories	DH-PFA150	Pole Mount Bracket		
	DH-PFA156	Pole Mount Bracket		
	DH-PFA121	Water-proof Junction Box		
	G3416GW	G3/4" Water Joint		

Accessories

Included:



PFB5310W Wall Mount Bracket

Optional:







DH-PFA150 DH-PFA156
Pole Mount Bracket Pole Mount Bracket



DH-PFB300C Ceiling Mount Bracket



G3416GW G3/4" Water Joint



PFA7711 Mount Adapter

Wall Mount	Ceiling Mount	Pole Mount(Vertical)
PFB5310W+PFA121	PFA7711+PFB300C	PFB5310W+PFA121+PFA156
E31		
Pole Mount(Horizontal)		
PFA7711+PFB300C+PFA150		

Dimensions (mm[inch])

