



# DH-SD3D216NB-GNY

2MP 16x IR WizSense Network PTZ Camera





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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











## 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 Specificatio	n					Smart Event	
Camera						IVS	Tripwire; intrusion
Image Sensor	1/2.8" CM	OS				Intelligence	
Pixel	2 MP					SMD	SMD 3.0
Max. Resolution	1920 (H) ×	1080 (V)				Video	
ROM	1920 (H) × 1080 (V) 128 MB			Video Compression	Smart H.265+;H.265;Smart H.264+;H.264B;H.264M;H.264H;MJPEG(Sub Stream 1)		
RAM	M 128 MB			Streaming Capability	2 streams		
Electronic Shutter Speed	ic Shutter Speed 1 s–1/30,000 s				1080p (1920 × 1080); 1.3MP (1280 × 960); 720p (1280		
Scanning System	Progressive	e				Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Min. Illumination		F1.6 (Color @F1.6 (B/W ninator on)				Video Frame Rate	Main stream: 1080p/1.3M/720p @(1–25/30 fps) Sub stream: D1/VGA/CIF@ (1–25/30 fps)
Illumination Distance	80 m (262.	.47 ft) (IR)				Bit Rate Control	CBR/VBR
Illuminator On/Off Control	Zoom Prio;	; Manual; Au	uto; Off			Video Bit Rate	H.264: 64 kbps-8,192 kbps H.265: 25 kbps-6,400 kbps
Illuminator Number	3 (IR)					Day/Night	Auto (ICR); Color/B/W
Lens						BLC	Yes
Focal Length	5.0 mm-80	0 mm				WDR	120 dB
Max. Aperture	F1.6-F3.5					HLC	Yes
Field of View	H: 54.4°-4	.1°; V: 31.4	°–2.3°; D: 63	1.3°–4.7°		White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
Optical Zoom	16×					Gain Control	Auto; manual
Focus Control	Auto; Semi	i-auto; Man	ual			Noise Reduction	2D NR; 3D NR
Close Focus Distance	0.1 m-1 m	(0.33 ft-3.2	28 ft)			Motion Detection	Yes
Iris Control	Fixed					Region of Interest (RoI)	Yes
	Lens	Detect	Observe	Recognize	Identify		
		1,103.4				Defog	Electronic Image Stabilization (EIS)
	5.0 mm- 80 mm	m	435.9 m ( 1,430.1	220.7 m ( 724.08	110.3 m ( 361.88	Digital Zoom	5x
	80 111111	( 3,620.0 8 ft)	2 ft)	ft)	ft)	Image Rotation	180°
DORI Distance			_	nize, Identif		S/N Ratio	≥55 dB
	a standard system (EN-62676-4) for defining  the ability of a person viewing the video						
	_		s or object	s within a his table do		Network Port	RJ-45 (10/100 Base-T)
	not reflectintelligent	t intelligent t function d	t function o	listances. Fo efer to insta	or Ilation	Network Protocol	HTTP;HTTPs;TCP/ IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;IPv6;SSL; FTP;ARP;RTCP;RTP;IP Filter;RTMP
0.77	and comm	nissioning r	nanuai/pro	ject design	1001.	Interoperability	CGI;SDK;ONVIF (Profile S & Profile T)
PTZ			T:1. 450		G: 4000	Streaming Method	Unicast/Multicast
Pan/Tilt Range				to +90°, auto	o flip 180°	User/Host	20 (total bandwidth: 64 M)
Manual Control Speed		40°/s; Tilt: 0				Storage	Micro SD card (256 GB); FTP
Preset Speed		40°/s; Tilt: 0	.1°–40°/s				IE 7 and later versions;
Preset	300					Browser	All Chrome versions; All Firefox versions;
Power-off Memory	Yes						All Safari versions
Idle Motion	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)	
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		
	The precision of the presets for PTZ cameras might	

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				
Accessories	PFA7711	Mount Adapter				
Accessories	DH-PFA150	Pole Mount Bracket				
	DH-PFA156	Pole Mount Bracket				
	DH-PFA121	Water-proof Junction Box				

vary depending on different series. For scenes with high

requirements on the precision, contact your local sales representative for assistance with selecting the model.

# Accessories

# Included:



PFB5310W Wall Mount Bracket

# Optional:







DH-PFB300C Ceiling Mount Bracket

PFA7711 Mount Adapter

DH-PFA150 Pole Mount Bracket



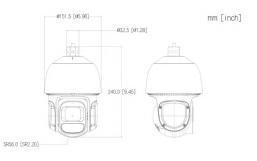


DH-PFA156 Pole Mount Bracket

DH-PFA121 Water-proof Junction Box

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

# Dimensions (mm[inch])





Remarks