



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	128 MB						Video Compression	Smart H.265+;H.265;Smart H.264+;H.264B;H.264M;H.264H;MJPEG(Sub Stream 1)
RAM	128 MB						Streaming Capability	2 streams
Electronic Shutter Speed	1 s-1/30,0	00 s						1080p (1920 × 1080); 1.3MP (1280 × 960); 720p (1280
Scanning System	Progressive	е					Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Min. Illumination		PF1.6 (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; Aı	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-8	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: 61.3°-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-auto; Manual				Noise Reduction	2D NR; 3D NR			
Close Focus Distance 0.1 m-1 m (0.33 ft-3.28 ft)				Motion Detection	Yes			
Iris Control	Fixed						Region of Interest (RoI)	Yes
	Lens	Detect	Observe	Recognize	Identify		Defog	Electronic Image Stabilization (EIS)
		1,103.4	435.9 m	220.7 m	110.3 m		Digital Zoom	5×
	5.0 mm- 80 mm	m (3,620.0	(1,430.1 2 ft)	(724.08 ft)	(361.88 ft)		Image Rotation	180°
		8 ft)					S/N Ratio	≥55 dB
DORI Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video 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	
							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
0.77	and comn	nissioning r	nanuai/pro	ject design	1001.		Interoperability	CGI;SDK;ONVIF (Profile S & Profile T)
PTZ		a.c.a. II	T:1: 450		G: 1000		Streaming Method	Unicast/Multicast
Pan/Tilt Range Pan: 0° to 360° endless; Tilt: –15° to +90°, auto flip 180°				User/Host	20 (total bandwidth: 64 M)			
Manual Control Speed Pan: 0.1°–40°/s; Tilt: 0.1°–40°/s				Storage	Micro SD card (256 GB); FTP			
Preset Speed Pan: 0.1°-40°/s; Tilt: 0.1°-40°/s					IE 7 and later versions; All Chrome versions;			
Preset Power-off Memory	300 Yes			Browser	All Firefox versions; All Safari versions			
Idle Motion					Management Software	DSS Pro		
PTZ Protocol	Preset						Mobile Client	iOS;Android
11211010001	DH-SD				WODING CHEFTE	103,Android		

	711 0000210110 0111
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	

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			

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.

Accessories

Included:



PFB5310W Wall Mount Bracket

Optional:







DH-PFB300C Ceiling Mount Bracket

PFA7711 Mount Adapter

DH-PFA150 Pole Mount Bracket



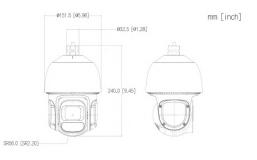


DH-PFA156 Pole Mount Bracket

DH-PFA121 Water-proof Junction Box

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

Dimensions (mm[inch])





Remarks