



DH-SD3D416NB-GNY

4M 16x IR WizSense Network PTZ Camera



Wiz Sense

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.

Protection (IP66, TVS 6000 V)

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

- · 1/2.8" 4Megapixel CMOS
- · 16x optical zoom Starlight technology
- Max. 25/30 fps@4MP
- · IR distance up to 80 m
- · IVS(Human/Vehicle Detection)
- · SMD 3.0
- · IP66
- Smart Light +
- · Preset Patrol











IVS

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

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					PTZ Protocol	DH-SD
Camera						Smart Event	
Image Sensor	1/2.8" CM	OS				IVS	Tripwire; intrusion
Pixel	4 MP					Intelligence	
Max. Resolution	2560 (H) ×	1440 (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-1/30,0	00 s				Streaming Capability	2 streams
Scanning System	Progressive	9				Streaming capability	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 ×
Min. Illumination		05 lux@F1.6 0 lux (IR ligh		white: 0.000)5	Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Illumination Distance	80 m (262.	47 ft) (IR)					Main stream: 4M/3M/1080p/1.3M/720p@(1–25/30
Illuminator On/Off Control Illuminator Number	Zoom Prio;	: Manual; Aı	uto; Off			Video Frame Rate	fps) Sub stream: D1/VGA/CIF@(1–25/30 fps)
Lens	3 (111)					Bit Rate Control	CBR/VBR
Focal Length	5.0 mm-80	O mm				Video Bit Rate	H264: 96–8,192 kbps H265: 38–8,192 kpbs
Max. Aperture	F1.6-F3.5					Day/Night	Auto (ICR); Color/B/W
Field of View	H: 50.56°-	3.84°; V: 29	.48°–2.16°;	D: 57.69°-4	.39°	BLC	Yes
Optical Zoom	16×					WDR	120 dB
Focus Control	Auto; Semi	i-auto; Man	ual			HLC	Yes
Close Focus Distance		(0.33 ft-3.2				White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
Iris Control	Auto; Man	ual; Iris pric				Gain Control	Auto; manual
	Lens	Detect	Observe	Recognize	Identify	Noise Reduction	2D NR; 3D NR
	5.0	1,600.00	632.00	320.00	160.00	Motion Detection	Yes
	5.0 mm- 80 mm	m (5,249.3	m (2,073.4	m (1,049.8	m (524.93	Region of Interest (RoI)	Yes
		4 ft)	9 ft)	7 ft)	ft)	Defog	Electronic Image Stabilization (EIS)
DORI Distance			_	nize, Identif) for definir		Digital Zoom	5×
	the ability of a person viewing the video to distinguish persons or objects within a					Image Rotation	180°
	covered a	rea. The nu	ımbers in t	his table do		S/N Ratio	≥55 dB
	intelligent	function d	istances, r	distances. Fo efer to insta	llation	Network	
	and comn	nissioning r	manual/pro	oject design	tool.	Network Port	RJ-45 (10/100 Base-T)
PTZ Pan/Tilt Range	Pan: 0° to 3	360° endles	s; Tilt: –15°	to +90°, aut	o flip 180°	Network Protocol	HTTP;HTTPs;TCP/ IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;IPv6;SSL; FTP;ARP;RTCP;RTP;IP Filter;RTMP
Manual Control Speed	Pan: 0.1°-	40°/s; Tilt: 0	.1°-40°/s			Interoperability	CGI;SDK;ONVIF (Profile S & Profile T)
Preset Speed	Pan: 0.1°-4	40°/s; Tilt: 0	.1°-40°/s			Streaming Method	Unicast/Multicast
Preset	300					User/Host	20 (total bandwidth: 64 M)
Tour	8 (up to 32	presets pe	r tour)			Storage	Micro SD card (256 GB); FTP
Pattern	5					Storage	IE 7 and later versions;
Power-off Memory	Yes					Browser	All Chrome versions; All Firefox versions;
Idle Motion	Preset					Management Cafea	All Safari versions
						Management Software	DSS Pro

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	ו		
Туре	Model	Description	
Network PTZ Camera	DH-SD3D416NB-GNY	4M 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	

Accessories

Included:



PFB5310W Wall Mount Bracket

Optional:







DH-PFA121 Water-proof Junction Box

DH-PFA150 Pole Mount Bracket

DH-PFA156 Pole Mount Bracket





DH-PFB300C Ceiling Mount Bracket

H

PFA7711 Mount Adapter

Wall Mount	Ceiling Mount	Pole Mount(Vertical)
PFB5310W+PFA121	PFA7711+PFB300C	PFB5310W+PFA121+PFA156
Pole Mount(Horizontal)		
PFA7711+PFB300C+PFA150		
0,000		

Dimensions (mm[inch])



