

DH-SDBCE4-45-XA

4MP Professional Ultra Smart IP IR 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.

System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera can provide large monitoring range and great detail. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

- · 1/2.8" 4Megapixel STARVIS™ CMOS
- · Powerful 45x optical zoom
- · Starlight technology
- · Max. 25/30fps@4MP
- Deep-learning-based auto tracking and perimeter protection
- · Face detection
- · SMD Plus (Smart Motion Detection)
- · IR distance up to 250m
- · IP67, IK10
- · 3th party software support
- Starlight
- · Ultra Smart













Perimeter Protecton

Automatcally filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recogniton for the targets. Improving alarm accuracy.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-40°C $^{\sim}$ 70°C (-40°F $^{\sim}$ +158°F) with 95% humidity. The camera complies with the IK10 Vandal Resistance impact rating. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for $\pm 25\%$ input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 8KV lightning rating provides effective protection for both the camera and its structure against lightning.

Interoperability

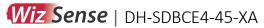
The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

SMD Plus

With Deep-Learning Algorithm, Dahua SMD Plus filters the motion detection alarm triggered by non-concerned target and recognizes human and vehicle effectively, sending alarms when human and vehicle intrude.



Technical Specification						Video Structuralization	Support human, motor vehicle and non-motor vehicle image capture
Camera						SMD Plus	Support
Image Sensor	1/2.8" STARVIS™ CMOS					Face Detection	
Pixels		4 MP					Support
Max. Resolution	2560 (H) × 1440 (V)					General Intellgence	
Scanning System Electronic Shutter Speed	Progressive 1/1 s-1/30,000 s					Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly
	Color: 0.005 Lux@F1.6;					General Intelligence	Object Abandoned/Missing
Minimum Illumination		B/W: 0.0005 Lux@F1.6; 0 Lux@F1.6 (IR on)				Video	
Illumination Distance	Distance up t	Distance up to 250 m (820 ft)				Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)
Illumination On/Off Control	Auto/Manua	Auto/Manual				Streaming Capability	3 Streams
Illuminator Number	6	6				Streaming Capability	4M (2560 × 1440)/3M (2048 × 1536)/1080p (1920 ×
Interoperability Max. User Access		SDK & API support 10 Users / Unlimited(Up to 64Mbps)				Resolution	1080)/720p (1280 × 720)/D1 (704 × 576/704 × 480)/ CIF (352 × 288/352 × 240)
Lens							Main stream: 4M/3M (1–25/30 fps), 1080p/1.3M/ 720p (1–25/30 fps)
Focal Length	3.95 mm-17	3.95 mm–177.75 mm				Frame Rate	Sub stream1: D1/CIF (1–25/30 fps)
Max. Aperture	F1.6-F4.95	F1.6–F4.95					Sub stream2: 1080p (1–25/30 fps), 720p (1–25/30 fps)
Angle of View	H: 70.3°-1.8°	H: 70.3°-1.8°; V: 37°-1°; D: 69.3°-2°				Bit Rate Control	CBR/VBR
Optical Zoom	45x	45x				Bit Rate	H.265/H.264: 3 Kbps-20,480 Kbps
Focus Control	Auto/Manual	Auto/Manual				Day/Night	Auto (ICR) / Color / B/W
Iris Control	Auto/Manual	Auto/Manual				BLC	Support
Close Focus Distance	10 mm-3,000	10 mm-3,000 mm				WDR	120 dB
DORI Distance				HLC	Support		
	Detect	Observe	Recognize	Identify		White Balance	Auto, ATW, Indoor, Outdoor, Manual
DORI Distance	3176 m (10420 ft)	1271 m (4170 ft)	635 m (2083 ft)	318 m (1043 ft)		Gain Control	Auto / Manual
PTZ	, ,	, ,	, ,	, ,		Noise Reduction	Ultra DNR (2D/3D)
Pan/Tilt Range	Pan: 0°–360°	endless; Tilt	: -20°–90°,auto	o flip 180°		Motion Detection	Support
Manual Control Speed	Pan: 0.1°-260	Pan: 0.1°–260° /s; Tilt: 0.1°–120° /s				Region of Interest	Support
Preset Speed	Pan: 300° /s;	Pan: 300° /s; Tilt: 200° /s				Image Stabilization	Electronic
Presets	300	300				Defog	Support
Tour	8 (up to 32 pr	8 (up to 32 presets per tour)				Digital Zoom	16x
Pattern	5	5				Flip	180°
Pan	5					Privacy Masking	Up to 24 areas
Power up Action		Auto restore to previous PTZ and lens status after				Audio	
Idle Motion		power failure Activate Preset/ Scan/ Tour/ Pattern if there is no				Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/MPEG2-L2
		command in the specified period				Network	
	Protocol DH-SD, Pelco-P/D (Auto recognition)					Ethernet	RJ-45 (10Base-T/100Base-TX)
Artificial Intelligence Tripwire, Intrusion. Support alarm triggering by target types(human and vehicle)						Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTMP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Filtering out false alarms caused by animals, rustling leaves, bright lights, etc				nals, rustling		Interoperability	ONVIF Profile S&G&T, API
Auto Tracking	Tracking Support					Streaming Method	Unicast / Multicast



User/Host	20 users				
Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB				
Browser	IE, Chrome, Firefox, Safari				
Management Software	Smart PSS, DSS, DMSS				
Smart Phone	IOS, Android				
Certifications					
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014				
Port					
RS485	1				
Audio I/O	1 (Line in; bare wire)/1 (Line out; bare wire)				
Alarm I/O	7/2				
Power					
Power Supply	DC 24 V/2.5 A ± 25%; PoE+(802.3at)				
Power Consumption	13 W, 26 W (IR On, Heater On)				
Environment					
Operating Conditions	-40°C to 70 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +158°F) / Less than 95% RH				
Protection	IP67, IK10				
Structure					
Casing	Aluminum alloy				
Dimensions	ф209 × 337.4 mm				
Net Weight	5.9 kg (13 lb)				
Gross Weight	9.6 kg (21.16 lb)				

Ordering Information						
Туре	Part Number	Description				
	DH-SDBCE4-45-XA	4MP Professional Ultra Smart IP IR PTZ Camera, WDR, PAL				
4MP WizSense	DH-SDBCE4-45-XA	4MP Professional Ultra Smart IP IR PTZ Camera, WDR, NTSC				
PTZ Camera	DH-SDBCE4-45-XA	4MP Professional Ultra Smart IP IR PTZ Camera, WDR, PAL				
	DH-SDBCE4-45-XA	4MP Professional Ultra Smart IP IR PTZ Camera, WDR, NTSC				
	PFB305W	Wall Mount Bracket				
	DC 24 V/2.5 A	Power Adapter				
	PFA111	Mount Adapter				
	PFA140	Power Box				
Accessories	PFB300C	Ceiling Mount Bracket				
	PFA120	Junction Box				
	PFA150	Pole Mount Bracket				
	PFA151	Corner Mount Bracket				
	PFB303S	Parapet Mount Bracket				

Accessories

Included:



PFB305W Wall Mount Bracket



DC 24 V/2.5 A Power Adapter

Optional:



PFA111 Mount Adapter



PFA140 Power Box



PFB300C Ceiling Mount Bracket



PFA120 Junction Box



PFA150 Pole Mount Bracket

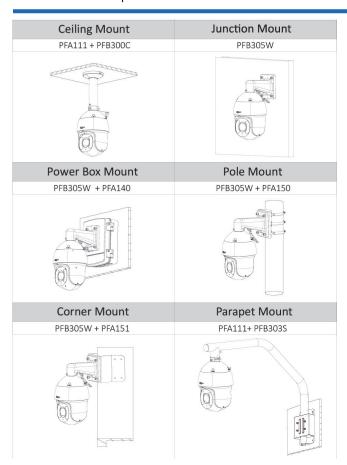


PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket

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Dimensions (mm[inch])

