

DH-SD6CE445XA-HNR

4MP 45x Starlight 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.

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
- · IR distance up to 250m
- · IP67, IK10













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.

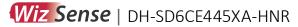
Interoperability

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	mera			Support	
Image Sensor	1/2.8" STARVIS™ CMOS		Face Detection	Support	
Pixels	4 MP		General Intellgence	General Intellgence	
Max. Resolution	2560 (H) × 1440 (V)		Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection, IP address	
Scanning System	Progressive		Conoral Intelligence	conflict, Illegal Access, Storage anomaly Object Abandoned/Missing	
Electronic Shutter Speed	1/1 s-1/30,000 s		General Intelligence	Object Abandoned/Wissing	
Minimum Illumination	Color: 0.005 Lux@F1.6; B/W: 0.0005 Lux@F1.6; 0 Lux@F1.6 (IR on)		Video	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)	
Illumination Distance	Distance up to 250 m (82	O ft)	Streaming Capability	3 Streams	
Illumination On/Off Control	Auto/Manual			4M (2560 × 1440)/3M (2048 × 1536)/1080p (1920 ×	
Illuminator Number	6		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-177.75 mm		Frame Rate	Sub stream1: D1/CIF (1–25/30 fps)	
Max. Aperture	F1.6–F4.95			Sub stream2: 1080p (1–25/30 fps), 720p (1–25/30 fps)	
Angle of View	H: 70.3°-1.8°; V: 37°-1°; D: 69.3°-2°		Bit Rate Control	CBR/VBR	
Optical Zoom	45x		Bit Rate	H.265/H.264: 3 Kbps-20,480 Kbps	
Focus Control	Auto/Manual		Day/Night	Auto (ICR) / Color / B/W	
Iris Control	Auto/Manual		BLC	Support	
Close Focus Distance	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 1271 m (10420 ft) (4170 ft)	635 m 318 m (2083 ft) (1043 ft)	Gain Control	Auto / Manual	
PTZ			Noise Reduction	Ultra DNR (2D/3D)	
Pan/Tilt Range	Pan: 0°–360° endless; Tilt: -20°–90°, auto flip 180°		Motion Detection	Support	
Manual Control Speed	Pan: 0.1°–260° /s; Tilt: 0.1°–120° /s		Region of Interest	Support	
Preset Speed	Pan: 300° /s; Tilt: 200° /s		Image Stabilization	Electronic	
Presets	300		Defog	Support	
Tour	8 (up to 32 presets per tour)		Digital Zoom	16x	
Pattern	5		Flip	180°	
Pan	5		Privacy Masking	Up to 24 areas	
Power up Action	Auto restore to previous power failure	PTZ and lens status after	Audio		
Idle Motion	Activate Preset/ Scan/ To		Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/MPEG2-L2	
Protocol	command in the specified DH-SD, Pelco-P/D (Auto re		Network		
	Pri-30, reico-r/D (Adto fi	Ecopilition)	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, SMMPv1/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 leaves, bright lights, etc	caused by animals, rustling	Interoperability	ONVIF Profile S&G&T, API	
Auto 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 $^{\circ}\text{F})$ / Less than 95% RH			
Protection	IP67, IK10			
Structure				
Casing	Metal			
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			
4MP WizSense PTZ Camera	DH-SD6CE445XA-HNR	4MP 45x Starlight IR WizSense Network PTZ Camera, WDR, PAL			
	DH-SD6CE445XAN-HNR	4MP 45x Starlight IR WizSense Network PTZ Camera, WDR, NTSC			
	SD6CE445XA-HNR	MP 45x Starlight IR WizSense Network PTZ Camera, WDR, PAL			
	SD6CE445XAN-HNR	MP 45x Starlight IR WizSense Network 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

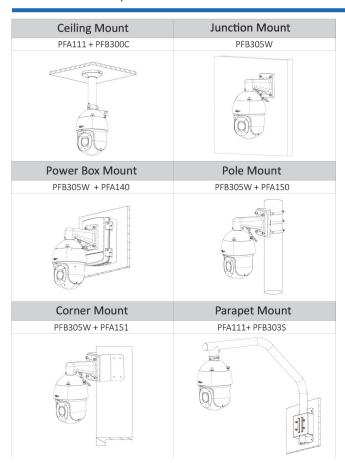


PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket

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Dimensions (mm[inch])

