



DH-SD6CE445XA-HNR

4MP 45x Starlight IR WizSense Network PTZ Camera



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 ±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.

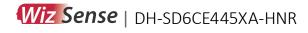
Interoperability

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 Spec	ification				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	Support	
Pixels		4 MP		General Intellgence	******	
Max. Resolution		2560(H) x 1440(V)		Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly	
Scanning System		Progressive			General Intelligence	Object Abandoned/Missing
Electronic Shutter Sp	eed	1/1s~1/30,000s			Video	
Minimum Illuminatio	on	Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)		Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)	
Illumination Distance	е	Distance up to 250m (820ft)		Streaming Capability	3 Streams	
Illumination On/Off (Control	Auto/Manual		Resolution	4M(2560×1440)/3M(2048×1536)/1080P(1920× 1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)	
Illuminator Number		6			Main stream: 4M/3M(1~25/30fps), 1080P/1.3M/720P(1~25/30fps)	
Lens					Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Focal Length		3.95m	m~177.75mm			Sub stream2: 1080P(1 ~ 25/30fps), 720P(1 ~ 25/30fps)
Max. Aperture		F1.6~ F4.95		Bit Rate Control	CBR/VBR	
Angle of View		H: 70.3° ~ 1.8°; V: 37° ~ 1°; D: 69.3° ~ 2°		Bit Rate	H.265/H.264: 3Kbps ~ 20480Kbps	
Optical Zoom		45x		Day/Night	Auto(ICR) / Color / B/W	
Focus Control		Auto/Manual		BLC	Support	
Iris Control		Auto/Manual		WDR	120dB	
Close Focus Distance		10mm~ 3000mm		HLC	Support	
DORI Distance		20111111 3000111111		White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Detect	Observe	Recognize Identify		Gain Control	Auto / Manual	
3176m(10420ft)	1271m(417	Oft)	635m(2083f)	318m(1043f)	Noise Reduction	Ultra DNR (2D/3D)
PTZ					Motion Detection	Support
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180°		Region of Interest	Support	
Manual Control Spee	ed	Pan: 0.1° ~260° /s; Tilt: 0.1° ~120° /s		Image Stabilization	Electronic	
Preset Speed		Pan: 300° /s; Tilt: 200° /s			Defog	Support
Presets		300			Digital Zoom	16x
Tour		8 (up to 32 presets per tour)			Flip	180°
Pattern		5			Privacy Masking	Up to 24 areas
Pan		5		Audio		
Power up Action		Auto restore to previous PTZ and lens status after power failure		Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/MPEG2-L2	
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no		Network		
		command in the specified period		Ethernet	RJ-45 (10Base-T/100Base-TX)	
Protocol DH-SD, Pelco-P/D (Auto recognition) Artificial Intelligence		Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x			
Perimeter Protection	1	Tripwire, Intrusion. Support alarm triggering by target types(human and vehicle)		Interoperability	ONVIF Profile S&G&T, API	
		Filtering out false alarms caused by animals, rustling leaves, bright lights, etc		Streaming Method	Unicast / Multicast	
Auto Tracking		Support			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
Certifications	FCC: Part15 subpartB, ANSI C63.4-2014

Port

RS485	1
Audio I/O	1/1
Alarm I/O	7/2

Power

Power Supply	AC24V/3A(±25%), PoE+(802.3at)
Power Consumption	13W, 26W(IR On, Heater On)

Environment

Operating Conditions	-40°C ~ 70°C (-40°F ~ +158°F) / Less than 95% RH
Protection	IP67, IK10

Structure

Casing	Metal
Dimensions	ф209×337.4mm
Net Weight	5.9kg(13lb)
Gross Weight	9.6kg(21.16lb)

Ordering Information

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	
	AC24V/3A	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

05W AC24V/3A nt Bracket 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

Parapet Mount Bracket	
Ceiling Mount	Junction Mount
PFA111 + PFB300C	PFB305W
Power Box Mount	Pole Mount
PFB305W + PFA140	PFB305W + PFA150
Corner Mount	Parapet Mount
PFB305W + PFA151	PFA111+ PFB303S

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Dimensions (mm)

