

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 fitering 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 ~ 70°C (-40°F ~ +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 effectvely, sending alarms when human and vehicle intrude.





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Technical Specification

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Camera		

Camera					
Image Sensor		1/2.8"	1/2.8" STARVIS™ CMOS		
Pixels	vixels		4 MP		
Max. Resolution		2560(H) × 1440(V)			
Scanning System		Progressive			
Electronic Shutter Speed		1/1s~1/30,000s			
Minimum Illumination		Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)			
Illumination Distance		Distance up to 250m (820ft)			
Illumination On/Off Control		Auto/Manual			
Illuminator Number		6			
Lens					
Focal Length		3.95mm~177.75mm			
Max. Aperture		F1.6~ F4.95			
Angle of View		H: 70.3° ~ 1.8°; V: 37° ~ 1°; D: 69.3° ~ 2°			
Optical Zoom	Optical Zoom		45x		
Focus Control		Auto/Manual			
Iris Control		Auto/Manual			
Close Focus Distance		10mm~ 3000mm			
DORI Distance					
Detect	Observe		Recognize	Identify	
3176m(10420ft)	1271m(417	Oft)	635m(2083f)	318m(1043f)	
PTZ					
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°,auto flip 180°			
Manual Control Spe	ed	Pan: 0.1° ~260° /s; Tilt: 0.1° ~120° /s			
Preset Speed		Pan: 300° /s; Tilt: 200° /s			
Presets		300			
Tour		8 (up to 32 presets per tour)			
Pattern		5			
Pan		5			
Power up Action		Auto restore to previous PTZ and lens status after power failure		TZ and lens status after	
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			
Protocol		DH-SD, Pelco-P/D (Auto recognition)			
Artificial Intelligence	e				
Perimeter Protection	ı	Tripwire, Intrusion. Support alarm triggering by target types(human and vehicle) Filtering out false alarms caused by animals, rustling leaves, bright lights, etc			
Auto Tracking		Suppo	rt		

Video Structuralization	Support human, motor vehicle and non-motor vehicle image capture
SMD Plus	Support
Face Detection	Support
General Intellgence	
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly
General Intelligence	Object Abandoned/Missing
Video	
Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)
Streaming Capability	3 Streams
Resolution	4M(2560×1440)/3M(2048×1536)/1080P(1920× 1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)
	Main stream: 4M/3M(1~25/30fps), 1080P/1.3M/ 720P(1~25/30fps)
Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
	Sub stream2: 1080P(1 ~ 25/30fps), 720P(1 ~ 25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.265/H.264: 3Kbps ~ 20480Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC	Support
WDR	120dB
HLC	Support
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	Ultra DNR (2D/3D)
Motion Detection	Support
Region of Interest	Support
Image Stabilization	Electronic
Defog	Support
Digital Zoom	16x
Flip	180°
Privacy Masking	Up to 24 areas
Audio	
Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/MPEG2-L2
Network	
Ethernet	RJ-45 (10Base-T/100Base-TX)
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
Interoperability	ONVIF Profile S&G&T, API
Streaming Method	Unicast / Multicast
User/Host	20 users



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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	1/1
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	
Operating Conditions	-40°C ~ 70°C (-40°F ~ +158°F) / Less than 95% RH
Protection	-40°C ~ 70°C (-40°F ~ +158°F) / Less than 95% RH IP67, IK10
Protection	
Protection Structure	IP67, IK10
Protection Structure Casing	IP67, IK10 Metal
Protection Structure Casing Dimensions	IP67, IK10 Metal φ209×337.4mm

Ordering Information

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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
Accessories	PFB305W	Wall Mount Bracket
	AC24V/3A	Power Adapter
	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

Accessories

Included:

Optional:





PFB305W AC24V/3A Wall Mount Bracket Power Adapter





Power Box



PFB300C



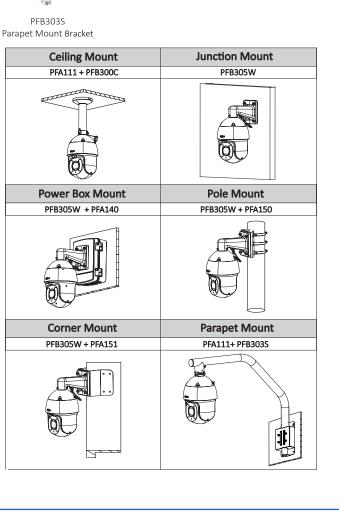
PFA151 Corner Mount Bracket



PFA111

Mount Adapter

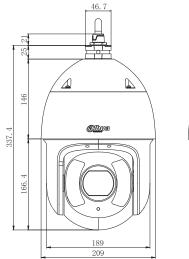
PFA150 Pole Mount Bracket

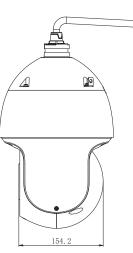




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Dimensions (mm)







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