

DH-SD6CE445XA-HNR (Special)

4MP 45x Starlight IR WizSense Network PTZ Camera



• 1/2.8" 4Megapixel STARVIS™ CMOS.

- Powerful 45x optical zoom.
- Starlight technology.
- Max. 25/30fps@4MP.
- $\cdot\,$ Deep-learning-based auto tracking and perimeter protection.
- Face detection.
- · SMD Plus.
- IR distance up to 250 meters.
- IP67, IK10.

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

With its powerful optical zoom, and accurate pan and tilt capabilities, the PTZ camera provides an all-in-one solution for long distance video surveillance of outdoor scenes. Together with infrared illumination and Starlight Technology, the camera is a great solution for dark, low light conditions. The series combines a day and night mechanical IR cut filter to produce high quality images in variable lighting conditions during the day.

Functions

Starlight Technology

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

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.

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.



Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve 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 intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

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Technical Specification

Tour

Pan

Pattern

Power up Action

Idle Motion

Protocol

Camera					
Image Sensor	1/2.8" STAR	1/2.8" STARVIS™ CMOS			
Pixels	4 MP				
Max. Resolution	2688(H) × 1520(V)				
ROM	4G				
RAM	1G				
Scanning System	Progressive				
Electronic Shutter Speed	1/1 s-1/30,000 s				
Minimum Illumination	Color: 0.005 Lux@F1.6; B/W: 0.0005 Lux@F1.6; 0 Lux@F1.6 (IR on)				
Illumination Distance	Distance up to 250 m (820 ft)				
Illumination On/Off Control	Auto/Manual				
Illuminator Number	6				
Lens					
Focal Length	3.95 mm–177.75 mm				
Max. Aperture	F1.6-F4.95				
Angle of View	H: 70.3°–1.8°; V: 37°–1°; D: 69.3°–2°				
Optical Zoom	45x				
Focus Control	Auto/Manual				
Iris Control	Auto/Manual				
Close Focus Distance	10 mm-3,000 mm				
DORI Distance					
DORI Distance	Detect	Observe	Recognize	Identify	
	3176 m (10420 ft)	1271 m (4170 ft)	635 m (2083 ft)	318 m (1043 ft)	
PTZ					
Pan/Tilt Range	Pan: 0°–360° endless; Tilt: -20°–90°,auto flip 180°				
Manual Control Speed	Pan: 0.1°-260° /s; Tilt: 0.1°-120° /s				
Preset Speed	Pan: 300° /s; Tilt: 200° /s				
Presets	300				

8 (up to 32 presets per tour)

command in the specified period

DH-SD, Pelco-P/D (Auto recognition)

Auto restore to previous PTZ and lens status after

Activate Preset/ Scan/ Tour/ Pattern if there is no

5

5

power failure

Artificial Intelligence Tripwire, Intrusion. Support alarm triggering by target types(human Perimeter Protection and vehicle) Filtering out false alarms caused by animals, rustling leaves, bright lights, and other factors. Auto Tracking Yes Support human, motor vehicle and non-motor vehicle Video Metadata image capture SMD Plus Yes Face Detection Yes General Intellgence Motion detection, Video tampering, Scene Event Trigger changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly General Intelligence Object Abandoned/Missing Video H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream) Compression Streaming Capability 3 Streams 4M (2688 × 1520)/3M (2048 × 1536)/1080p (1920 × Resolution 1080)/720p (1280 × 720)/D1 (704 × 576/704 × 480)/ CIF (352 × 288/352 × 240) Main stream: 4M/3M (1-25/30 fps), 1080p/1.3M/ 720p (1-25/30 fps) Frame Rate Sub stream1: D1/CIF (1-25/30 fps) Sub stream2: 1080p (1-25/30 fps), 720p (1-25/30 fps) Bit Rate Control CBR/VBR Bit Rate H.265/H.264: 3 Kbps-20,480 Kbps Auto (ICR) / Color / B/W Day/Night BLC Yes WDR 120 dB HLC Yes White Balance Auto, ATW, Indoor, Outdoor, Manual Gain Control Auto / Manual Ultra DNR (2D/3D) Noise Reduction Yes Motion Detection Region of Interest (Rol) Yes Image Stabilization Electronic Defog Yes **Optical Zoom** 16x 180° Flip Privacy Masking Up to 24 areas Audio G.711a/G.711Mu/G.722 / G.726/G.729/MPEG2-L2 Compression

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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, RTMP, 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		
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)		
	13 W, 26 W (IR On, Heater On)		
Environment	13 W, 26 W (IR On, Heater On)		
	13 W, 26 W (IR On, Heater On) Operating Temperature -40 °C to 70 °C (-40 °F to +158°F) Operating Humidity ≤ 95% (RH)		
Environment	Operating Temperature –40 °C to 70 °C (–40 °F to +158°F) Operating Humidity		
Environment Operating Conditions	Operating Temperature –40 °C to 70 °C (–40 °F to +158°F) Operating Humidity ≤ 95% (RH)		
Environment Operating Conditions Protection	Operating Temperature –40 °C to 70 °C (–40 °F to +158°F) Operating Humidity ≤ 95% (RH)		
Environment Operating Conditions Protection Structure	Operating Temperature -40 °C to 70 °C (-40 °F to +158°F) Operating Humidity ≤ 95% (RH) IP67, IK10		
Environment Operating Conditions Protection Structure Casing	Operating Temperature -40 °C to 70 °C (-40 °F to +158°F) Operating Humidity ≤ 95% (RH) IP67, IK10 Metal		

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 Networ PTZ Camera, WDR, PAL		
	SD6CE445XAN-HNR	MP 45x Starlight IR WizSense Networ PTZ Camera, WDR, NTSC		
Accessories	PFB305W	Wall Mount Bracket		
	DC 24 V/2.5 A	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

Optional:



PFB305W

Wall Mount Bracket



DC 24 V/2.5 A Power Adapter

ower Adapter



PFA140

Power Box

PFA150

Pole Mount Bracket



PFB300C Ceiling Mount Bracket



PFA151 Corner Mount Bracket

PFA120 Junction Box

PFA111

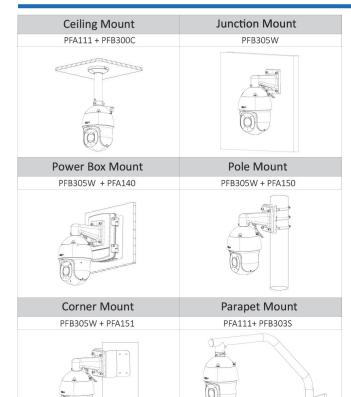
Mount Adapter



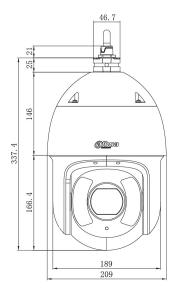
PFB303S Parapet Mount Bracket

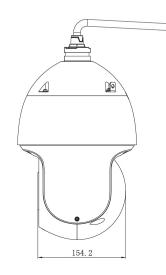
www.dahuasecurity.com

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Dimensions (mm[inch])





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