

DH-SD6CE445XA-HNR

4MP 45x Starlight IR Network PTZ Camera





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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

Unique and elegant, the black semicircular sphere discreetly monitors from a distance without drawing undue attention to itself. It has a powerful optical zoom, and accurate pan, tilt and zoom capabilities, providing 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, and True WDR for locations with direct sunlight and glare.

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.

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.

Face Detection

Supports 6 attributes and 8 expressions: Gender, age, glasses, face mask, beard and expressions (anger, sadness, disgust, fear, surprise, calm

happiness, and confusion). It also supports face cutout settings: Face, and single inch photo. Three snapshot methods are also featured: Real-time snapshot, priority snapshot, and quality priority.

- 1/2.8" 4Megapixel STARVIS™ CMOS.
- · 45x optical zoom.
- · Starlight technology.
- · Max. 25/30fps@4M.
- IR distance up to 250 m.
- · Auto-tracking 3.0.
- Perimeter protection.
- · Face detection.
- SMD 4.0.
- · Quick Pick.
- IP67. IK10.













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.

Protection (IP67, TVS 6000 V)

IP67, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

Technical Specificatio	n		Supports face detection, optimization, tracking,
Camera			capturing pictures, uploading high-quality face snapshots, and face enhancement; Supports
Image Sensor	1/2.8" CMOS	2.8" CMOS Face Detection	
Pixel	4 MP		Gender, age, glasses, expressions (angry, sad, hate, scary, surprise, calm, happy and confused), mask, mustache; Supports face cutout: Face, one-inch photo. Capturing strategies include real-time capturing, optimization, and quality first.
Max. Resolution	2560 (H) × 1440 (V)		
ROM	4 GB		
RAM	1 GB	Auto Tracking	Yes
Electronic Shutter Speed	1/1 s-1/30,000 s	SMD	Yes
Scanning System	Progressive	Quick Pick	Yes
Min. Illumination	Color: 0.005 Lux@F1.6; B/W: 0.0005 Lux@F1.6; 0 Lux@F1.6 (IR on)	Video Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+
Illumination Distance	250 m (820.21 ft)	Change in a Count ilite.	3 streams
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off	Streaming Capability	
Illuminator Number	6 (IR)	Resolution	4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)
Lens			
Focal Length	3.95 mm-177.75 mm	Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p (1–25/30 fps)
Max. Aperture	F1.6-F4.95		Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)
Field of View	H: 65.7°-1.9°V: 39.4°-1.1°D: 73.1°-2.1°	Bit Rate Control	CBR/VBR
Optical Zoom	45×	Video Bit Rate	H264: 96 kbps–14848 kbps H265: 38 kbps–8960 kbps
Focus Control	Auto/Semi-Auto/Manual	Day/Night	Auto (ICR)/Color/B/W
Close Focus Distance	0.1 m-1 m (0.33 ft-3.28 ft)	BLC	Yes
Iris Control	Auto/Manual	WDR	120 dB
	Detect Observe Recognize Identify	HLC	Yes
DORI Distance	2451.7 m 972.9 m 490.3 m 245.2 m (8043.64 ft) (3191.93 ft) (1608.60 ft) (804.46 ft)	White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/Natural light/Street lamp
PTZ		Gain Control	Auto/Manual
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: -20° to $+90^{\circ}$, auto flip 180°	Noise Reduction	2D/3D
Manual Control Speed	Pan: 0.1°/s–300°/s; Tilt: 0.1°/s–200°/s	Motion Detection	Yes
Preset Speed	Pan: 400°/s; Tilt: 300°/s	Region of Interest (RoI)	Yes
Preset	300	Image Stabilization	Electronic (EIS)
Tour	8 (up to 32 presets per tour)	Defog	Electronic
Pattern	5	Digital Zoom	16×
Scan	5	Image Rotation	180°
Power-off Memory	Yes	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
Idle Motion	Pattern; Preset; Scan; Tour	S/N Ratio	≥ 55 dB
PTZ Protocol	DH-SD Pelco-P/D (auto recognition)	Audio	
Intelligence		Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2;
IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking	Network	G722.1; G729; G723
		Network Port	1 × RJ-45 (10/100 Base-T)
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Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP	
Interoperability	CGI; SDK; ONVIF (Profile S&G&T); P2P	
Streaming Method	Unicast/Multicast	
User/Host	20 (total bandwidth: 64 M)	
Storage	Micro SD card (Up to 512 GB);FTP;NAS	
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions	
Management Software	DSS; DMSS	
Mobile Client	iOS; Android	
Certification		
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4- 2014	
Port		
Analog Output	1 channel (CVBS output, BNC)	
RS-485	1(Bit range: 1200 bps–9600 bps)	
Audio Input	1 channel	
Audio Output	1 channel	
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output	
Alarm Event	Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection	
Alarm I/O	7/2	
Audio I/O	1/1	
Power		
Power Supply	24 VDC, 2.5 A ± 25% PoE+ (802.3at)	
Power Consumption	Basic: 13 W Max: 25 W	
Environment		
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)	
Operating Humidity	≤95% (RH)	
Protection	IP67; IK10; TVS 8000V lightning proof; surge protection; voltage transient protection	
Structure		
Product Dimensions	337.4 mm × Φ209 mm (13.28" × Φ8.23")	
Net Weight	5.9 kg (13.00 lb)	
Gross Weight	9.6 kg (21.16 lb)	

Ordering Information				
Туре	Model	Description		
4MP WizSense PTZ Camera	DH-SD6CE445XA-HNR	4MP 45x Starlight IR WizSense Network PTZ Camera		
	SD6CE445XA-HNR	4MP 45x Starlight IR WizSense Network PTZ Camera		
Accessories	PFB305W	Wall Mount Bracket		
	DC 24 V/2.5 A	Power Adapter		
	PFA111	Mount Adapter		
	PFA120	Mount Adapter		
	PFB300C	Ceiling Mount Bracket		
	PFA150	Pole Mount Bracket		
	PFA151	Corner Mount Bracket		
	PFB301C	Ceiling Mount Bracket		
	PFB301S-E	Plane Mount Bracket		
	PFB303S	Parapet Mount Bracket		

Accessories

Included:









DC 24 V/2.5 A Power Adapter

Optional:



PFA111 Mount Adapter



PFA120 Water-proof Junction Box



PFB300C Ceiling Mount Bracket



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



PFB301C Ceiling Mount Bracket



PFB301S-E Plane Mount Bracket



PFB303S Parapet Mount Bracket

Installation

Wall Mount	Ceiling Mount	Ceiling Mount
PEB305W+PFA120	PEA111+PE8300C	PFA111+PF8301C
Pole Mou nt (Vertical)	Corner Mount	Pole Mount(Horizontal)
PER305W+PEA150	PERXISW+PEA151	PFA111+PFB3()(C+PFA15()
Plane Mount	Parapet Mount	
PFR901S-E	PFA111+PFE903S	

Dimensions (mm [inch])

