

DH-SD6CE245XA-HNR

2MP 45x Starlight IR WizSense 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

Dahua WizSense is a series of AI products and complete end-to-end solution based on deep-learning. The product focuses on human and vehicle, benefiting everyone with intelligent functions, simple configuration and inclusive products.

Functions

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

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 0.005 Lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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.

- 1/2.8" 2Megapixel STARVIS™ CMOS
- 45x optical zoom
- · Starlight technology
- Max. 50/60 fps@1080P
- IR distance up to 250 m
- Auto-tracking
- Perimeter protection
- Face detection
- · SMD Plus















Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

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.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.



Technical Specification				General Intelligence			
Camera					Event Trigger	Motion detection, video tampering, scene changing, network disconnection, IP address conflict, illegal	
Image Sensor	1/2.8" CMOS				IV.C	access, and storage anomaly.	
Pixel	2MP				IVS	Object Abandoned/Missing	
Max. Resolution	1920 (H) x 1080 (V)				Artificial Intelligence		
ROM	4 GB				Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.	
RAM	1 GB					Tripwire and intrusion. Support alarm triggering by	
Electronic Shutter Speed Scanning System	1/1 s-1/30000 s Progressive				Perimeter Protection	target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.	
Scanning System	Color: 0.005 Lux@F1.6				SMD Plus	Support	
Min. Illumination	B/W: 0.0005 Lux@F1.6 0 Lux (IR on)				Auto Tracking	Support	
Illumination Distance	250 m (820 ft)				Video		
Illuminator On/Off Control	Zoom Prio/Manual/SmartIR				Compression	H.265; H.265+; H.264+; H.264; MJPEG (Sub Stream)	
Illuminator Number	6				Streaming Capability	3 streams	
Lens						1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)	
Focal Length	3.95 mm-177.7 mm				Resolution		
Max. Aperture	F1.6–F4.95				Frame Rate	Main stream: 1080P/1.3M/720P (1–50/60 fps) Sub stream 1: D1/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°						
Optical Zoom	45x				Bit Rate Control	Variable/Constant	
Focus Control	Auto/Semi-Auto/Manual				Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps	
Close Focus Distance	0.01 m-3 m (0.03 ft-9.84 ft)				Day/Night	Support	
Iris Control	Auto/Manual				BLC	Support	
	Detect Observe	Recognize	Identify		WDR	120 dB	
DORI Distance	2451.7 m 972.9 m	490.3 m	245.2 m		HLC	Support	
PTZ	(8043.64 ft) (3191.93 ft	(1608.60 ft)	(804.46 ft)		White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/Natural/Street lamp	
Pan/Tilt Range Pan: 0°–360°; Tilt: -20°–+90°					Gain Control	Auto/Manual	
Manual Control Speed	Pan: 0.1°/s–260°/s; Tilt: 0.1°/s–120°/s				Noise Reduction	2D/3D	
Preset Speed	Pan: 300°/s; Tilt: 200°/s				Motion Detection	Support	
Preset	an: 300 /s; Titt: 200 /s				Region of Interest (RoI)	Support	
Tour	8 (up to 32 presets per tour)				Image Stabilization	Electronic	
Pattern	8 (up to 32 presets per tour)				Defog	Electronic	
Scan	5				Digital Zoom	16x	
Speed Adjustment	Support				Flip	0°/180°	
Power-off Memory	Support				Privacy Masking	Up to 24 areas, and up to 8 areas in the same view	
·					S/N Ratio	≥ 55 dB	
Idle Motion	Preset/Tour/Pattern/Scanning				Audio		
Protocol	DH-SD Pelco-P/D (auto recognition)				Compression	G.711A; G.711Mu; G.726; AAC; G.722.1; G.723; G.729; PCM; MPEG2-Layer2	

Network				
Ethernet	1 RJ-45 Port (10/100Base-T)			
Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; QoS; FTP; SMTP; UPnP; SNMP v1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCP			
Interoperability	ONVIF Profile S&G&T CGI			
Streaming Method	Unicast/Multicast			
User/Host	20 (total bandwidth 64 MB)			
Storage	FTP; Micro SD card (256 GB); P2P			
Browser	IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari			
Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS			
Mobile Phone	iOS; Android			
Certification				
Certification	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014			
Port				
RS-485	1 (baud rate range:1200 bps–9600 bps)			
Audio Input	1 (LINE IN; bare wire)			
Audio Output	1 (LINE OUT; bare wire)			
Two-way Audio	Support			
Alarm I/O	7/2			
Power				
Power Supply	DC24V/2.5A±25%			
Power Consumption	13W 26W (IR light on)			
Environment				
Operating Temperature	-40°C to +70°C (-40°F to +158°F)			
Operating Humidity	≤ 95%RH			
Protection	IP67; IK10; TVS 8000V lightning protection; surge protection; voltage transient protection			
Structure				
Casing	Metal			
Dimensions	337.4 mm × Φ209.1 mm (13.28" × Φ8.23")			
Net Weight	6.5 kg (14.33 lb)			
Gross Weight	9.6 kg (21.16 lb)			

Ordering Information						
Туре	Model	Description				
2M WizSense PTZ Camera	DH-SD6CE245XA-HNR	2MP 45x Starlight IR WizSense Network PTZ Camera, PAL				
	DH-SD6CE245XAN-HNR	2MP 45x Starlight IR WizSense Network PTZ Camera, NTSC				
	SD6CE245XA-HNR	2MP 45x Starlight IR WizSense Network PTZ Camera, PAL				
	SD6CE245XAN-HNR	2MP 45x Starlight IR WizSense Network PTZ Camera, NTSC				
Accessories	DC24V/2.5A	Power Adapter				
	PFB305W	Wall Mount Bracket				
	PFA111	Mount Adapter				
	PFB300C	Ceiling Mount Bracket				
	PFA150	Pole Mount Bracket				
	PFA120	Junction Box				
	PFA140	Power Box				
	PFA151	Corner Mount Bracket				
	PFB303S	Parapet Mount Bracket				

Accessories

Included:



DC24V/2.5A Power Adapter



PFB305W Wall Mount Bracket

Optional:



PFA111 Mount Adapter



PFB300C Ceiling Mount Bracket



PFA150 Pole Mount Bracket



PFA120 Junction Box

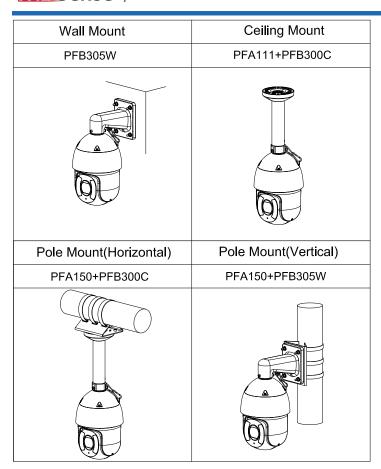


PFA140 Power Box



PFA151 Corner Mount Bracket





Dimensions (mm[inch])

