



DH-SD6AL445XA-HNR-IR-SL

4MP 45x Starlight IR WizMind Network PTZ Camera





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day, and True WDR for applications with direct sunlight or glare.

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

Smart Capture

Support human, motor vehicle and non-motor vehicle image capture.

Perimeter Protection

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

- · 1/2.8" 4Megapixel CMOS
- · Powerful 45x optical zoom
- · Starlight technology
- · Max. 25/30 fps@4MP
- · Deep-learning-based auto tracking and perimeter protection
- · Support face detection
- · Support Hi-PoE
- · SMD PLUS
- · IP67
- · Anti corrosion coating

















Face Detection

6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, sadness, disgust, fear, surprise, calm, happiness and confusion), mask, beard; Face matting setting: face, single inch photo; Three snapshot methods: real-time snapshot, priority snapshot, quality priority.

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.

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.

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 vehicles intrude.

Ingress Protection

IP67; TVS 8000V lightning proof; Surge protection.



Technical Specification	· 				General Intelligence	
Camera						Motion detection, video tampering, scene changing,
Image Sensor	1/2.8" CMOS	5			Event Trigger	network disconnection, IP address conflict, illegal access, and storage anomaly
Pixel	4MP				IVS	Object abandoned/missing
Max. Resolution	2560 (H) × 14	140 (V)			Artificial Intelligence	
ROM	4GB				Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.
RAM	1GB				Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
Electronic Shutter Speed	1/1 s –1/30000 s					
Scanning System	Progressive				Face Detection	Support
		Lux@F1.6 Lux@F1.6			SMD PLUS	Support
	OLux (IR light on)				Video	
Illumination Distance	300 m (984.	25 ft)			Compression	H.265; H.264B; H.264M; H.264H; MJPEG; MPEG4; H.265+; H.264+; MJPEG (sub stream)
Illuminator On/Off Control	Zoom Prio/N	1anual/SmartIF	R/Off		Streaming Capability	3 streams
Illuminator Number	7				3 1 ,	4M (2560 × 1440); 3M (2048 × 1536); 1080P (1920 ×
Wiper	Support				Resolution	1080); 720P (1280 × 960); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Lens						Main stream: 4M/3M (1–25/30 fps), 1080P/1.3M/720P
Focal Length Max. Aperture		3.95 mm-177.7 mm F1.6-F4.9			Frame Rate	(1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps)
Field of View						Sub stream 2: 1080P (1–25/30 fps), 720P (1–25/30 fps)
Optical Zoom	H: 70.3°–1.8°; V: 37°–1°; D: 69.3°–2°				Bit Rate Control	Variable/Constant
Focus Control		45x			Bit Rate	Main stream with default resolution: H.264: 3 Kbps–20480 Kbps
Close Focus Distance		Auto/Semi-Auto/Manual				H.265: 3 Kbps- 20480 Kbps
Iris Control		0.01 m-3 m (0.03 ft-9.84 ft) Auto			Day/Night	Auto (ICR)/Color/B/W
ins control		Observe	Dogganiza	Idontifu	BLC	Support
DORI Distance	Detect	Observe	Recognize	Identify	WDR	120dB
	3554 m (11660.10 ft)	1421.6 m (4664.04 ft)	710.8 m (2332.02 ft)	355.4 m (1166.01 ft)	HLC	Support
PTZ					White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural light/Street lamp
Pan/Tilt Range	Pan: 0°-360°	endless 0°, auto flip 18	oo°		Gain Control	Auto/Manual
Manual Control Speed	Pan: 0.1°–20		50		Noise Reduction	2D/3D
Manual Control Speed	Tilt: 0.1° –12	0°/s			Motion Detection	Support
Preset Speed	Pan: 240°/s;	Pan: 240°/s; Tilt: 200°/s			Region of Interest (RoI)	Support
Presets	300	300			Image Stabilization	Electronic
Tour	8 (up to 32 presets per tour)				Defog	Digital
Pattern	5				Digital Zoom	16x
Scan	5				Flip	180°
Power-off Memory	Support				Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Idle Motion	Preset/Tour/Pattern/Scanning				Audio	
Protocol	DH-SD Pelco-P/D (a	uto recognitior	n)		Compression	G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729; G.723
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Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMPv1/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	19
Storage	FTP; Micro SD card (256G); 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	
Certifications	CE: EN62368-1; EN55032; EN61000-3-2; EN61000-3-3 EN55024; EN55035; EN50130-4 FCC: 47 CFR FCC Part15, SubpartB, ClassA; ANSI C63.4 2014
Port	
RS-485	1 (Baud rate range: 1200 bps–115200 bps)
Audio Input	1
Audio Output	1
Alarm I/O	7/2
Power	
Power Supply	DC36V/2.23A; HI-PoE
Power Consumption	Basic: 20W Max.: 36W (IR light and PTZ on at minimum voltage)
Environment	
Operating Temperature	-40°C ~ 70°C (-40°F to 158°F)
Operating Humidity	≤95%
Protection	IP67; TVS 8000V lightning proof; Surge protection

Metal

6.5 kg (14.33 lb) 8.9 kg (19.62 lb)

382 mm × Φ240 mm (15.04" x Φ9.45")

Structure

Dimensions

Net Weight

Gross Weight

Casing

Ordering Information					
Туре	Model	Description			
	DH-SD6AL445XA- HNR-IR-SL	4MP 45x Starlight IR WizMind Network PTZ Camera, WDR, PAL			
4MP WizMind PTZ Camera	DH-SD6AL445XAN- HNR-IR-SL	4MP 45x Starlight IR WizMind Network PTZ Camera, WDR, NTSC			
	SD6AL445XA-HNR-IR- SL	4MP 45x Starlight IR WizMind Network PTZ Camera, WDR, PAL			
	SD6AL445XAN-HNR-IR- SL	4MP 45x Starlight IR WizMind Network PTZ Camera, WDR, NTSC			
	PFB303WA	Wall Mount Bracket			
	PFA111A	Mount Adapter			
	DC36V/2.23A	Power Adapter			
	PFA140A	Power Box			
Accessories	PFB300CA	Ceiling Mount Bracket			
	PFA120A	Junction Box			
	PFA155A	Pole Mount Bracket			
	PFA151A	Corner Mount Bracket			

Accessories

Included:



PFB303WA Wall Mount Bracket



PFA111A Mount Adapter



DC36V/2.23A Power Adapter

Optional:



PFA140A Power Box



PFB300CA Ceiling Mount Bracket



PFA120A Junction Box



PFA150A Pole Mount Bracket



PFA151A Corner Mount Bracket

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Ceiling Mount	Junction Mount
PFA111A+PFB300CA	PFA111A+PFB303WA+PFA120A
Power Box Mount	Pole Mount
PFA111A+PFB303WA+PFA140A	PFA111A+PFB303WA+PFA155A
Corner Mount	
PFA111A+PFB3032A+PFA151A	

Dimensions (mm[inch])

