



DH-SD6AL245XA-HNR

2MP 45x Starlight Laser 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

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
- Laser distance up to 550 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 make 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.

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Technical Specification Camera 1/2.8" CMOS Image Sensor Pixel 2MP Max. Resolution 1920 (H) x 1080 (V) ROM 4 GB 1 GB RAM 1/1 s-1/30000 s Electronic Shutter Speed Scanning System Progressive Color: 0.005 Lux@F1.6 Min. Illumination B/W: 0.0005 Lux@F1.6 0 Lux (laser on) Illumination Distance 550 m (1804.46 ft) Illuminator On/Off Control Zoom Prio/Manual/SmartIR Illuminator Number 2 IR lights; 1 laser Lens Focal Length 3.95 mm-177.7 mm Max. Aperture F1.6-F4.95 Field of View H: 65.7°-1.9°; V: 39.4°-1.1°; D: 73.1°-2.1° **Optical Zoom** 45x Focus Control Auto/Semi-Auto/Manual 0.01 m-3 m (0.03 ft-9.84 ft) **Close Focus Distance** Iris Control Auto/Manual Detect Observe Recognize Identify DORI Distance 490.3 m 2451.7 m 972.9 m 245.2 m (8043.64 ft) (3191.93 ft) (1608.60 ft) (804.46 ft) PTZ Pan/Tilt Range Pan: 0°-360°; Tilt: -20°-+90° Manual Control Speed Pan: 0.1°/s-200°/s; Tilt: 0.1°/s-120°/s Preset Speed Pan: 240°/s; Tilt: 200°/s Preset 300 Tour 8 (up to 32 presets per tour) Pattern 5 5 Scan Speed Adjustment Support Power-off Memory Support Idle Motion Preset/Tour/Pattern/Scanning

DH-SD

Pelco-P/D (auto recognition)

access, and storage anomaly.

Motion detection, video tampering, scene changing,

network disconnection, IP address conflict, illegal

Protocol

Event Trigger

General Intelligence

IVS	Object Abandoned/Missing
Artificial Intelligence	
Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.
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.
SMD Plus	Support
Auto Tracking	Support
Video	
Compression	H.265; H.265+; H.264+; H.264; MJPEG (Sub Stream)
Streaming Capability	3 streams
Resolution	1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
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)
Bit Rate Control	Variable/Constant
Bit Rate	H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps
Day/Night	Support
BLC	Support
WDR	120 dB
HLC	Support
White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/Natural/Street lamp
Gain Control	Auto/Manual
Noise Reduction	2D/3D
Motion Detection	Support
Region of Interest (RoI)	Support
Image Stabilization	Electronic
Defog	Electronic
Digital Zoom	16x
Flip	0°/180°
Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
S/N Ratio	≥ 55 dB
Audio	
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

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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	DC 36V/2.23A (-5% to +10%); Hi-PoE	
Power Consumption	20W 36W (laser on)	
Environment		
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	
Operating Humidity	≤ 95%RH	
Protection	IP67; TVS 8000V lightning protection; surge protection; voltage transient protection	
Structure		
Casing	Metal	
Dimensions	358 mm × Φ239.8 mm (14.09" × Φ9.44")	
Net Weight	6.8 kg (14.99 lb)	
Gross Weight	9.2 kg (20.28 lb)	

Ordering Information			
Туре	Model	Description	
2M WizMind PTZ Camera	DH-SD6AL245XA-HNR	2MP 45x Starlight Laser WizMind Network PTZ Camera, PAL	
	DH-SD6AL245XAN-HNR	2MP 45x Starlight Laser WizMind Network PTZ Camera, NTSC	
	SD6AL245XA-HNR	2MP 45x Starlight Laser WizMind Network PTZ Camera, PAL	
	SD6AL245XAN-HNR	2MP 45x Starlight Laser WizMind Network PTZ Camera, NTSC	
Accessories	DC36V/2.23A	Power Adapter	
	PFA111	Mount Adapter	
	PFB305W	Wall Mount Bracket	
	PFB300C	Ceiling Mount Bracket	
	PFA150	Pole Mount Bracket	
	PFA120	Junction Box	
	PFA140	Power Box	
	PFA151	Corner Mount Bracket	
	PFB303S	Parapet Mount Bracket	

Accessories

DC36V/2.23A

Power Adapter

Optional:

Included:





PFB305W

Wall Mount Bracket



PFA111 Mount Adapter



PFA120 Junction Box



PFB303S Parapet Mount . Bracket

PFB300C Ceiling Mount Bracket



PFA140 Power Box

PFA151 Corner Mount Bracket

Pole Mount Bracket



PFA150



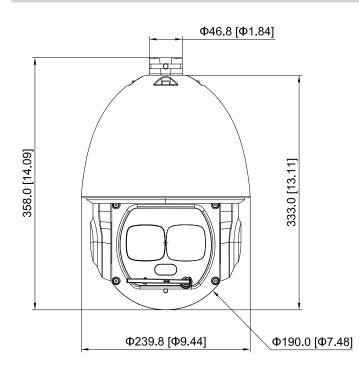


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Wall Mount	Ceiling Mount
PFA111+PFB303W	PFA111+PFB300C
Pole Mount(Vertical)	Pole Mount(Horizontal)
PFA111+PFB303W+PFA150	PFA111+PFB300C+PFA150

Dimensions (mm[inch])



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