



# DH-SD6AL445XA-HNR

4MP 45x Starlight Laser WizMind Network PTZ Camera



- · 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
- $\cdot$  Laser distance up to 550m
- · Support Hi-PoE
- · SMD PLUS · IP67

#### Wiz Mind

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.

#### Video Metadata

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.

#### **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.



## Wiz Mind | DH-SD6AL445XA-HNR

DH-SD

Pelco-P/D (auto recognition)

Protocol

#### **Technical Specification** General Intelligence Motion detection, video tampering, scene changing, Camera Event Trigger network disconnection, IP address conflict, illegal access, and storage anomaly Image Sensor 1/2.8" CMOS IVS Object abandoned/missing 4MP Pixel Artificial Intelligence Max. Resolution 2560 (H) × 1440 (V) Support human, motor vehicle and non-motor vehicle Smart Capture 4GB ROM image capture. Tripwire and intrusion. Support alarm triggering by 1GB RAM target types (human and vehicle). Support filtering Perimeter Protection false alarms caused by animals, rustling leaves, bright Electronic Shutter Speed 1/1 s-1/30000 s lights, etc Scanning System Progressive Face Detection Support Color: 0.005Lux@F1.6 SMD PLUS Support B/W: 0.0005Lux@F1.6 Min. Illumination OLux (IR light on) Auto Tracking Support Video 550 m (1804.46 ft) Illumination Distance H.265; H.264B; H.264M; H.264H; MJPEG; MPEG4; Compression Illuminator On/Off Control Zoom Prio/Manual/SmartIR/Off H.265+; H.264+; MJPEG (sub stream) 2 IR lights Illuminator Number Streaming Capability 3 streams 1 Laser 4M (2560 × 1440); 3M (2048 × 1536); 1080P (1920 × Wiper Support 1080); 720P (1280 × 960); D1 (704 × 576/704 × 480); Resolution CIF (352 × 288/352 × 240) Lens Main stream: 4M/3M (1-25/30 fps), 1080P/1.3M/720P 3 95 mm-1777 mm (1-25/30 fps) Focal Length Frame Rate Sub stream 1: D1/CIF (1-25/30 fps) Sub stream 2: 1080P (1-25/30 fps), 720P (1-25/30 fps) F1.6-F4.9 Max. Aperture Bit Rate Control Variable/Constant H: 70.3°-1.8°; V: 37°-1°; D: 69.3°-2° Field of View Optical Zoom 45x Main stream with default resolution: Bit Rate H.264: 3 Kbps-20480 Kbps H.265: 3 Kbps-20480 Kbps Focus Control Auto/Semi-Auto/Manual 0.01 m-3 m (0.03 ft-9.84 ft) **Close Focus Distance** Auto (ICR)/Color/B/W Day/Night Iris Control Auto BLC Support Detect Observe Recognize Identify 120dB WDR DORI Distance HI C Support 3554 m 1421 6 m 710.8 m 355 4 m (11660.10 ft) (4664.04 ft) (2332.02 ft) (1166.01 ft) Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ White Balance Natural light/Street lamp PTZ Auto/Manual Gain Control Pan: 0°-360° endless Pan/Tilt Range Tilt: -20°-+90°, auto flip 180° Noise Reduction 2D/3D Pan: 0.1°-200°/s Manual Control Speed Motion Detection Support Tilt: 0.1°-120°/s Preset Speed Pan: 240°/s: Tilt: 200°/s Region of Interest (Rol) Support Presets 300 Image Stabilization Electronic Tour Digital 8 (up to 32 presets per tour) Defog Pattern 5 Digital Zoom 16x Scan 5 180 Flip 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

G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729; G.723

Compression

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#### Network

Net Weight

Gross Weight

Network		0
Ethernet	RJ-45 (10/100Base-T)	Ту
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	4M Wiz
Streaming Method	Unicast/Multicast	PT2
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	Ac
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)	A
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		c
Operating Temperature	-40°C ~ 70°C (-40°F to 158°F)	
Operating Humidity	≤95%	
Protection	IP67; TVS 8000V lightning proof; Surge protection	
Structure		
Casing	Metal	
Dimensions	382 mm × Φ240 mm (15.04" x Φ9.45")	

6.8 kg (14.99 lb)

9.2 kg (20.28 lb)

Ordering Information			
Туре	Model	Description	
4MP WizMind PTZ Camera	DH-SD6AL445XA-HNR	4MP 45x Starlight Laser WizMind Network PTZ Camera, WDR, PAL	
	DH-SD6AL445XAN-HNR	4MP 45x Starlight Laser WizMind Network PTZ Camera, WDR, NTSC	
	SD6AL445XA-HNR	4MP 45x Starlight Laser WizMind Network PTZ Camera, WDR, PAL	
	SD6AL445XAN-HNR	4MP 45x Starlight Laser WizMind Network PTZ Camera, WDR, NTSC	
Accessories	PFB303W	Wall Mount Bracket	
	PFA111	Mount Adapter	
	DC36V/2.23A	Power Adapter	
	PFA140	Power Box	
	PFB300C	Ceiling Mount Bracket	
	PFA120	Junction Box	
	PFA150	Pole Mount Bracket	
	PFA151	Corner Mount Bracket	
	PFB303S	Parapet Mount Bracket	

### Accessories

### Included:



PFB303W

**Optional:** 

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PFA140

Power Box

PFA150

Pole Mount Bracket



PFA111



DC36V/2.23A Power Adapter



PFA120 Junction Box



PFB303S Parapet Mount Bracket

Wall Mount Bracket Mount Adapter

PFB300C Ceiling Mount Bracket



PFA151 Corner Mount Bracket



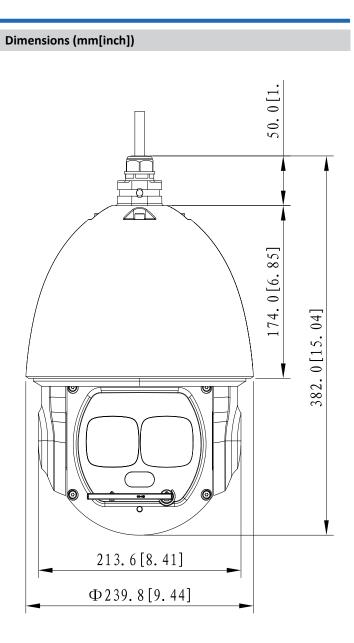






### Wiz Mind | DH-SD6AL445XA-HNR

Ceiling Mount	Junction Mount
PFA111 + PFB300C	PFA111 + PFB303W + PFA120
Power Box Mount	Pole Mount
PFA111 + PFB303W + PFA140	PFA111 + PFB303W + PFA150
Corner Mount	Parapet Mount
PFA111 + PFB303W + PFA151	PFA111+ PFB303S



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