

# DH-SD6AL445GB-HNV

4MP 45x Starlight Laser 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 industry verticals.

#### **System Overview**

With its powerful optical zoom and accurate pan, tilt capabilities, the PTZ camera provides 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**

## Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighting, WDR adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

- 1/2.8" 4Megapixel STARVIS™ CMOS.
- · 45x optical zoom.
- · Starlight technology.
- Max. 25/30 fps@2560 × 1440.
- The laser illumination distance up to 550 m.
- · Auto tracking 3.0.
- · Perimeter protection.
- Face detection
- · Video Metadata.
- SMD 4.0.
- IP67.







#### **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.

#### **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.

Technical Specificati	on					PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)
Camera				Intelligence	reico-ryb (Auto recognition)		
Image Sensor	1/2.8" CMOS					memberies	Motor vehicle, non-motor vehicle, face, and human body
Pixel	4 MP					Video Metadata	detection; optimization; capturing pictures; uploading high-quality face snapshots. Attribute extraction of motor
Max. Resolution	2560 (H) × 1440 (V)				vehicle is also supported, where 10 attributes can be detected		
ROM	4 GB				IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification; linkage tracking	
RAM	1 GB						
Electronic Shutter Speed	1 s-1/30,000 s				Face Detection	Supports face detection, optimization, capturing pictures, uploading high-quality face snapshots and enhancing face images. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image	
Scanning System	Progressive						
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR/laser light on)						
Illumination Distance	550 m (1804	550 m (1804.46 ft)					among a group of snapshots
Illuminator On/Off Control	Zoom prio; N	1anual; Auto; O	ff			Auto Tracking	Yes
Illuminator Number	2 (IR); 1 (lase	r)				SMD	SMD4.0
Wiper	Wiper					Quick Pick	Yes
Lens						Video	
Focal Length	3.95 mm-17	3.95 mm–177.7 mm				Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream); Smart H.264+
Max. Aperture	F1.6-F4.95	F1.6-F4.95				Streaming Capability	3 streams
Field of View	H: 63.2°-1.8°	H: 63.2°-1.8°; V: 37.6°-1.1°; D: 70.8°-2.1°				Resolution	4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Optical Zoom	45×	45x					
Focus Control	Auto; semi-auto; manual				Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p@(1-25/30 fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)	
Close Focus Distance	0.1 m-1 m (0.33 ft-3.28 ft)						
Iris Control	Auto; manual; iris prio				Bit Rate Control	CBR/VBR	
	Detect 3,555 m	Observe 1,404.2 m	Recognize	Identify 355.5 m		Video Bit Rate	H.264: 96 kbps-14848 kbps H.265: 38 kbps-8960 kbps
		(4,606.96 ft)				Day/Night	Color; B/W; Auto; Electronic
DORI Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and					BLC	Yes
						WDR	120 dB
						HLC	Yes
commissioning manual/project design tool. PTZ				White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp		
Pan/Tilt Range	Pan: 0° to 36		20°			Gain Control	Auto; manual; gain prio
		Tilt: -20° to +90°, auto flip 180° Pan: 0.1°/s-200°/s				Noise Reduction	2D NR; 3D NR
Manual Control Speed	Tilt: 0.1°/s–120°/s				Motion Detection	Yes	
Preset Speed	Pan: 240°/s; Tilt: 200°/s				Region of Interest (RoI)	Yes	
Preset	300				Image Stabilization	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					multiple colors available	

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S/N Ratio	≥ 55 dB
Audio	
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723
Network	
Network Port	RJ-45 (10/100 Base-T)
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)
Streaming Method	Unicast/Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	Micro SD card (512 GB); FTP/SFTP; NAS
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions
Management Software	DMSS; DSS Pro
Mobile Client	iOS; Android
Certification	
Certifications	CE: CN211FB1 001 and 4789976478-2.5-1 FCC: 4790130386-2
Port	
Alarm I/O	7/2
Audio I/O	1/1
RS-485	1 (baud rate: 1200 bps–115200 bps)
Audio Input	1 channel (LINE IN, bare wire)
Audio Output	1 channel (LINE OUT,bare wire)
Alarm Linkage	Capture; Recording; send email; preset; tour; pattern; alarm digital input
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection
Power	
Power Supply	36 VDC, 2.23 A ± 25% HI-PoE
Power Consumption	Basic: 15 W Max: 45 W (illuminator+PTZ)
Environment	
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating Humidity	≤ 95%
Protection	TVS 6000 V lightning proof; surge protecton; voltage transient protecton; IP67
Structure	
Product Dimensions	382 mm × Φ239.8 mm (15.04" × Φ9.44")
Net Weight	6.8 kg (14.99 lb)
Gross Weight	9.2 kg (20.28 lb)

Ordering Information						
Туре	Model	Description				
SD6AL Series	DH-SD6AL445GB-HNV	4MP 45x Starlight Laser Network PTZ Camera				
Accessories	DC36V/2.23A	Power Adapter				
	PFA111	Mount adapter				
	PFB303W	Bracket				
	PFB300C	Ceiling Mount				
	PFA150	Vertical pole mount				
	PFA151+PFB303W	Corner Mount				
	PFA150+DH-PFB300C	Horizontal Pole Mount				
	PFB301C	Ceiling Mount				
	PFB301S-E	Plane Mount				
	PFB303S	Parapet Mount				

## **Accessories**

#### Included:







PFA111 Mount adapter



PFB303W Bracket

# Optional:



PFB300C Ceiling Mount Bracket



PFA150 Pole Mount Bracket



PFA151+PFB303W Corner Mount Bracket



PFA150+PFB300C Horizontal Pole Mount



PFB301C Ceiling Mount



PFB301S-E Plane Mount



PFB303S Parapet Mount

		0.11
Wall Mount	Ceiling Mount	Ceiling Mount
PFA111+PFB303W+PFA120	PFA111+PFB300C	PFA111+PFB301C
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)
PFA111+PFB303W+PFA150	PFA111+PFB303W+PFA151	PFA111+PFB300C+PFA150
Plane Mount	Parapet Mount	
PFB301S-E	PFA111+PFB303S	

# Dimensions (mm[inch])

