

# DH-SD6AL245GB-HNV

2MP 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"2Megapixel STARVIS™ CMOS.
- · 45x optical zoom.
- · Starlight technology.
- · Max. 50/60 fps@1080p.
- 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 Specification	on					Idle Motion	Pattern; Preset; Scan; Tour
Camera				PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)		
Image Sensor	1/2.8" CMOS					Intelligence	Teleo 17B (Auto recognition)
Pixel	2 MP					eaBerree	Motor vehicle, non-motor vehicle, face, and human body
Max. Resolution	1920 (H) × 10	980 (V)				Video Metadata	detection; optimization; capturing pictures; uploading high-quality face snapshots. Attribute extraction of motor vehicle is also supported, where 10 attributes can be
ROM	4 GB					detected	
RAM	1 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	
Electronic Shutter Speed	1 s-1/30,000 s						
Scanning System	Progressive	Progressive				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
Min. Illumination	B/W: 0.0005	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR/laser light on)					
Illumination Distance	550 m (1804.46 ft)					supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group of snapshots	
Illuminator On/Off Control	Zoom prio; Manual; Auto; Off				Auto Tracking	Yes	
Illuminator Number	2 (IR); 1 (lase	2 (IR); 1 (laser)				SMD	SMD4.0
Wiper	Wiper					Quick Pick	Yes
Lens						Video	
Focal Length	3.95 mm-177.7 mm					H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG	
Max. Aperture	F1.6-F4.95				Video Compression	(Sub Stream); Smart H.264+	
Field of View	H: 68°-2.3°; \	H: 68°-2.3°; V: 41.7°-1.2°; D: 75.1°-2.4°				Streaming Capability	3 streams
Optical Zoom	45 ×				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Focus Control	Auto; semi-auto; manual					Main stream: 1080p/1.3M/720p@(1-50/60 fps)	
Close Focus Distance	cus Distance 0.1 m-1 m (0.33 ft-3.28 ft)				Video Frame Rate	Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p/@(1-25/30 fps)	
Iris Control	Auto; manual; iris prio				Bit Rate Control	CBR/VBR	
	Detect 2451.7 m	Observe 968.4 m	Recognize 490.3 m	Identify 245.2 m		Video Bit Rate	H264: 184 Kbps–9472 Kbps H265: 73 Kbps–5632 Kbps
		(3177.16 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 commissioning manual/project design tool.					BLC	Yes
						WDR	120 dB
						HLC	Yes
PTZ						White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –20° to +90°, auto flip 180°				Gain Control	Auto; manual; gain prio	
Manual Control Speed	Pan: 0.1°/s-200°/s Tilt: 0.1°/s-120°/s				Noise Reduction	2D NR; 3D NR	
Preset Speed	Pan: 240°/s; Tilt: 200°/s				Motion Detection	Yes	
Preset	300				Region of Interest (RoI)	Yes	
Tour	8 (up to 32 presets per tour)				Image Stabilization	EIS	
Pattern	5				Defog	Electronic	
Scan	5				Digital Zoom	16×	
Power-off Memory	Yes				Image Rotation	180°	
,							Unito 24 areas can be set with unito 8 areas in the same

Privacy Masking

Up to 24 areas can be set, with up to 8 areas in the same

view; multiple colors available

VVIZ IVIIIIG	DIT-3D0AL243GB-TINV	
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-SD6AL245GB-HNV	2MP 45x Starlight Laser Network PTZ Camera			
	DC36V/2.23A	Power Adapter			
Accessories	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:

Power Adapter



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

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])

