

DH-SD6AL445GB-HNV-IR

4MP 45x Starlight IR 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.
- IR distance up to 300 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				Intelligence			
Camera					Motor vehicle, non-motor vehicle, face, and human body detection; optimization; capturing pictures; uploading		
Image Sensor	1/2.8" CMOS					Video Metadata	high-quality face snapshots. Attribute extraction of motor vehicle is also supported, where 10 attributes can be
Pixel	4 MP					detected	
Max. Resolution	2560 (H) × 1440 (V)				IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm	
ROM	4 GB						classification; linkage tracking
RAM	1 GB						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
Electronic Shutter Speed	1 s-1/30,000 s						
Scanning System	Progressive	Progressive				Face Detection	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	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR/laser light on)					supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group of snapshots	
Illumination Distance	300 m (984.2	5 ft)				Auto Tracking	Yes
Illuminator On/Off Control	Zoom prio; M	anual; Auto; Ot	ff			SMD	SMD4.0
Illuminator Number	7 (IR)					Quick Pick	Yes
Wiper	Wiper				Video		
Lens						Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream); Smart H.264+
Focal Length	3.95 mm-177.7 mm				Streaming Capability	3 streams	
Max. Aperture Field of View	F1.6–F4.95				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	
		H: 63.2°-1.8°; V: 37.6°-1.1°; D: 70.8°-2.1°					(352 × 288/352 × 240)
Optical Zoom 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)				Bit Rate Control	CBR/VBR		
Iris Control	Auto; manual; iris prio				Video Bit Rate	H.264: 96 kbps–14,848 kbps H.265: 38 kbps–8,960 kbps	
DORI Distance	Detect	Observe	Recognize	Identify		Day/Night	Color; B/W; Auto; Electronic
DOM Distance	3,555 m (11,663.39 ft)	1,404.2 m (4,606.96 ft)	711 m (2,332.68 ft)	355.5 m (1,166.34 ft)		BLC	Yes
PTZ						WDR	120 dB
Pan/Tilt Range	Pan: 0° to 360		30°			HLC	Yes
Manual Control Speed	Pan: 0.1°/s-2	Tilt: -20° to +90°, auto flip 180° Pan: 0.1°/s-200°/s Tilt: 0.1°/s-120°/s				White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Preset Speed	Pan: 240°/s; 1	Pan: 240°/s; Tilt: 200°/s				Gain Control	Auto; manual; gain prio
Preset	300					Noise Reduction	2D NR; 3D NR
Tour	8 (up to 32 presets per tour)				Motion Detection	Yes	
Pattern	5				Region of Interest (RoI)	Yes	
Scan	5				Image Stabilization	EIS	
Power-off Memory	Yes					Defog	Electronic
Idle Motion	Pattern; Preset; Scan; Tour					Digital Zoom	16×
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)				Image Rotation	180°	
	reicu-P/D (Au	no recognition)				Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; multiple colors available

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 52 and later versions Safari 10 and later versions		
Management Software	DMSS;DSS Pro		
Mobile Client	iOS;Android		
Certification			
Certifications	CE: E234884-A6503-IT-1 and 4789976478-2.4-1 FCC: 4790130386-1		
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: 13 W Max: 27 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)		

Ordering Information					
Туре	Model	Description			
SD6AL Series	DH-SD6AL445GB- HNV-IR	4MP 45x Starlight IR Network PTZ Camera			
	DC36V/2.23A	Power Adapter			
	PFA111	Mount adapter			
	PFB303W	Bracket			
	PFB300C	Ceiling Mount			
Accessories	PFA150	Vertical pole mount			
Accessories	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

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])

