

SD6AL445GB-HNV-IR

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.
- 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	on	Idle Motion	Pattern; Preset; Scan; Tour
Camera		PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)
Image Sensor	1/2.8" CMOS	Intelligence	releasing (vacorecognition)
Pixel	4 MP		Motor vehicle, non-motor vehicle, face, and human body detection; optimization; capturing pictures; uploading high-quality face snapshots. Attribute extraction of motor vehicle is also supported, where 10 attributes can be detected
Max. Resolution	2560 (H) × 1440 (V)	Video Metadata	
ROM	4 GB		
RAM	1 GB	IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving;
Electronic Shutter Speed	1 s-1/30,000 s	TVS (Fermiciel Frotestion)	parking detection; people gathering; human alarm classification; linkage tracking
Scanning System	Progressive		Supports face detection, optimization, capturing pictures,
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR/laser light on)	Face Detection	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
Illumination Distance	300 m (984.25 ft)		supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image
Illuminator On/Off Control	Zoom prio; Manual; Auto; Off	A	among a group of snapshots
Illuminator Number	7 (IR)	Auto Tracking	Yes
Wiper	Wiper	SMD	SMD4.0
Lens		Quick Pick	Yes
Focal Length	3.95 mm–177.7 mm	Video	
Max. Aperture	F1.6-F4.95	Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream); Smart H.264+
Field of View	H: 63.2°-1.8°; V: 37.6°-1.1°; D: 70.8°-2.1°	Streaming Capability	3 streams
Optical Zoom Focus Control	45× Auto; semi-auto; manual	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
Close Focus Distance	0.1 m-1 m (0.33 ft-3.28 ft)		(352 × 288/352 × 240) Main stream: 4M/3M/1080p/1.3M/720p@(1-25/30 fps)
Iris Control	Auto; manual; iris prio	Video Frame Rate	Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)
	Detect Observe Recognize Identify	Bit Rate Control	CBR/VBR
	3,555 m 1,404.2 m 711 m 355.5 m (11,663.39 ft) (4,606.96 ft) (2,332.68 ft) (1,166.34 ft)	Video Bit Rate	H.264: 96 kbps-14,848 kbps H.265: 38 kbps-8,960 kbps
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	Day/Night	Color; B/W; Auto; Electronic
		BLC	Yes
	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	WDR	120 dB
	commissioning manual/project design tool.	HLC	Yes
PTZ	Pan: 0° to 360° endless	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Pan/Tilt Range	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°

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:



DC36V/2.23A Power Adapter



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])

