



DH-SD6AL233XA-HNR

2MP 33x Starlight+ Laser WizMind 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 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 0.001 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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.

- 1/1.8" 2Megapixel CMOS
- · Powerful 33x optical zoom
- · Starlight+ technology
- Max. 50/60fps@1080P
- · Deep-learning-based auto tracking and perimeter protection
- · Support Hi-PoE
- · Laser distance up to 550 m
- · SMD PLUS
- IP67













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.

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 vehicle intrude.



Technical Specification					Protocol	DH-SD Pelco-P/D (auto recognition)
Camera					General Intelligence	
Image Sensor	1/1.8" CMO	S				Motion detection, video tampering, scene changing,
Pixel	2MP				Event Trigger	network disconnection, IP address conflict, illegal access, and storage anomaly.
Max. Resolution	1920 (H) x 1	080 (V)			IVS	Object Abandoned/Missing
ROM	4GB				Artificial Intelligence	
RAM	1GB				Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.
Electronic Shutter Speed	1/3-1/3000	0 s			Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
Scanning System	Progressive					
Min. Illumination	Color: 0.001Lux@F1.5 B/W: 0.0001Lux@F1.5 0Lux (IR light on)				SMD PLUS	Support
					Auto Tracking	Support
Illumination Distance	550m (1804	1ft)			Face Detection	Support
Illuminator On/Off Control	Zoom Prio/N	Manual/SmartI	R		Video	
Illuminator Number	Laser Modu	le			Compression	H.265/H.265+/H.264+/H.264/MJPEG (sub stream)
Wiper	Support				Streaming Capability	3 streams
Lens					Resolution	1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352
Focal Length	5.8 mm-191	L.4 mm				× 240)
Max. Aperture Field of View	F1.5–F4.8 H: 60.1°–3.2°; V: 35.3° –1.8°; D: 67.9°–3.7°				Frame Rate	Main stream: 1080P/1.3M/720P (1–50/60fps) Sub stream 1: D1/CIF (1–25/30fps) Sub stream 2: 1080P/1.3M/720P/D1/CIF (1–25/30fps)
Optical Zoom	33x				Dit Data Cantual	
Focus Control	Auto/Semi-	Auto/Manual			Bit Rate Control	Variable Bit Rate/Constant Bit Rate
Close Focus Distance	0.1 m-1 m (0.33 ft–3.28 ft)			Bit Rate	H.265/H.264: 3 kbps–20480 kbps
Iris Control	Auto/Manual				Day/Night	Auto (ICR)/Color/B/W
	Detect	Observe	Recognize	Identify	BLC	Support
DORI Distance	Detect	Observe	Recognize	identity	WDR	120 dB
DOM DISTANCE	1655 m (5429.80ft)		331 m (1085.96ft)	165 m (541.34 ft)	HLC	Support Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/
DT7	,	,	,	,	White Balance	Natural light/Street lamp
PTZ	Pan: 0°-360	•			Gain Control	Auto/Manual
Pan/Tilt Range	Tilt: -20°-+9				Noise Reduction	2D/3D
Manual Control Speed	Pan: 0.1°/s-7 Tilt: 0.1°/s-1				Motion Detection	Support
Preset Speed	Pan: 240°/s Tilt: 200°/s				Region of Interest	Support
Presets	300				Image Stabilization	Electronic
Tour	8 (up to 32 p	oresets per tou	r)		Defog	Support
Pattern	5				Digital Zoom	16x
Scan	5				Flip	0°/180°
Speed Adjustment	Support				Privacy Masking	Up to 24 areas
Power-off Memory	Support				Audio	
Idle Motion	Preset/Tour/Pattern/Scanning				Compression	G.711A; G.711Mu; G.726; AAC; G.722.1; G.723; G.729; PCM; MPEG2-Layer2

Certification	
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4-2014
Port	
Audio Input	1 (LINE IN; bare wire)
Audio Output	1 (LINE OUT; bare wire)
Alarm I/O	7/2
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMPv1/v2c/v3(MIB-2); DNS; DDNS; NTP; RTSI RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPOE; ARP; RTCF
Interoperability	ONVIF Profile S&G&T CGI
Streaming Method	Unicast/Multicast
User/Host	20 (Total bandwidth 48M)
Storage	FTP; Micro SD card (256G); P2P
Browser	IE7 and newer versions Chrome 42 and older versions Firefox 52 and older versions Safari
Management Software	Smart Player; Smart PSS; DSS; Easy4ip
Mobile Phone	IOS/Android
Power	
Power Supply	AC24V/3A±25% Hi-PoE
Power Consumption	20W 33W (Laser on)
Environment	
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Humidity	≤95%RH
Protection	IP67; TVS 8000V lightning proof; surge protection
Structure	
Casing	Metal
Dimensions	Φ240 mm x 382 mm (9.45" × 15.04")
Net Weight	6.75 kg (14.88 lb)
Gross Weight	10.1 kg (22.27 lb)

Accessories	PFB303W	Wall Mount Bracket	
	PFA111	Mount Adapter	
	AC24V/3A	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 Wall Mount Bracket



PFA111 Mount Adapter



AC24V/3A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount Bracket



PFA120 Junction Box



PFA150 Pole Mount Bracket

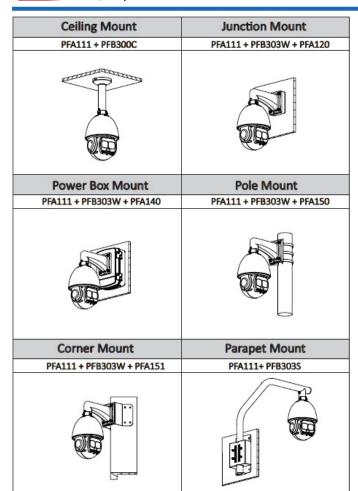


PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket

Ordering Information						
Туре	Model	Description				
	DH-SD6AL233XA-HNR	2MP 33x Starlight+ Laser WizMind Network PTZ Camera, WDR, PAL				
2MP WizMind PTZ Camera	DH-SD6AL233XAN-HNR	2MP 33x Starlight+ Laser WizMind Network PTZ Camera, WDR, NTSC				
	SD6AL233XA-HNR	2MP 33x Starlight+ Laser WizMind Network PTZ Camera, WDR, PAL				
	SD6AL233XAN-HNR	2MP 33x Starlight+ Laser WizMind Network PTZ Camera, WDR, NTSC				



Dimensions (mm[inch]) 20.0[17.04] 213.6[8.41]

Ф239.8[9.44]