

DH-SD6AL233XA-HNR-IR

2MP 33x Starlight + IR PTZ AI Network Camera



Al series products adopt the most advanced Al technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua Al series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc. The complete lineup of Dahua Al includes network (PTZ) cameras, network video recorders, servers, and more devices. Beyond seeing the world, the power of Al allows devices to perceive the environment and understand the world in a better way.

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
- IR distance up to 300m
- 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.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. The camera complies with the IK10 Vandal Resistance impact rating. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 8KV lightning rating provides effective protection for both the camera and its structure against lightning.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specification	n				Artifical Intelligence	
Camera				Video Metadata	Support human, motor vehicle and non-motor vehicle image capture.	
Image Sensor	1/1.8" CMOS					Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
Max. Resolution		1920 (H) x 1080 (V)			Perimeter Protection	
Effective Pixels	2MP	2MP			Auto Tracking	Support
ROM	4GB	4GB			General Intelligence	
RAM	1GB	1GB				Motion detection, video tampering, scene changing,
Electronic Shutter Speed	1/3–1/30000 s				Event Trigger	network disconnection, IP address conflict, illegal access, and storage anomaly.
Scanning System	Progressive	Progressive			General IVS	Object Abandoned/Missing
Min. Illumination	B/W: 0.0001	Color: 0.001Lux@F1.5 B/W: 0.0001Lux@F1.5 0Lux (IR light on)			Video	
IR Distance	300 m (984				Compression	H.265/H.265+/H.264+/H.264/MJPEG (sub stream)
IR On/Off Control		Zoom Prio/Manual/SmartIR			Streaming Capability	3 streams
IR LEDs Number	1				Resolution	1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Wiper	Support				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)
Lens					Bit Rate Control	Variable Bit Rate/Constant Bit Rate
Focal Length		5.8 mm-191.4 mm			Bit Rate	H.265/H.264: 3 kbps–20480 kbps
Max. Aperture Field of View		F1.5-F4.8				
Optical Zoom	33x	H: 60.1°–3.2°; V: 35.3° –1.8°; D: 67.9°–3.7°			Day/Night	Auto (ICR)/Color/B/W
Focus Control					BLC	Support
Close Focus Distance		Auto/Semi-Auto/Manual			WDR	120 dB
Iris Control	Auto/Manua	0.1 m-1 m (0.33 ft-3.28 ft)			HLC	Support
control					White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural light/Street lamp
DOBI Distance	Detect	Observe	Recognize	Identify	Gain Control	Auto/Manual
DORI Distance	1655 m (5429.80ft)	622 m (2040.68ft)	331 m (1085.96ft)	165 m (541.34 ft)	Noise Reduction	2D/3D
DT7					Motion Detection	Support
PTZ	Dan. 0° 360	•			Region of Interest	Support
Pan/Tilt Range	Pan: 0°–360° Tilt: -20°–+90°				Electronic Image Stabilization	Support
Manual Control Speed	Pan: 0.1°/s–2 Tilt: 0.1°/s–1				Defog	Support
Preset Speed	Pan: 240°/s Tilt: 200°/s				Digital Zoom	16x
Presets	300	300			Flip	0°/180°
Tour	8 (up to 32 p	8 (up to 32 presets per tour)			Privacy Masking	Up to 24 areas
Pattern Number	5	5			Audio	
Scanning Number	5				Compression	G.711A; G.711Mu; G.726; AAC; G.722.1; G.723; G.729; PCM; MPEG2-Layer2
Speed Adjustment	Support				Certification	
Power-off Memory	Support				Certifications	CE: EN55032/EN55024/EN50130-4
Idle Motion	Preset/Tour,	Preset/Tour/Pattern/Scanning				FCC: Part15 subpartB,ANSI C63.4-2014
Protocol	DH-SD	DH-SD			Port	a museus de la companya de la compan
	Pelco-P/D (auto recognition)				Audio In	1 (LINE IN; bare wire)

Pro Al Series | DH-SD6AL233XA-HNR-IR

Audio Out	1 (LINE OUT; bare wire)
Alarm Port	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; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPOE; ARP; RTCP
Interoperability	ONVIF Profile S&G CGI
Streaming Method	Unicast/Multicast
User/Host	20 (Total bandwidth 48M)
Edge 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
Smart Phone	IOS/Android

Power

Power Supply	AC24V/3A±25% Hi-PoE
Power Consumption	20W 32W (IR on)

Environment

Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Humidity	≤95%RH
Ingress Protection	IP67; TVS 8000V lightning proof; surge protection

Structure

Casing	Metal
Dimensions	Φ240 mm x 382 mm (9.45" × 15.04")
Net Weight	5.8 kg (12.79 lb)
Gross Weight	10.5 kg (23.15 lb)

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

Accessories	PFB303W	Wall Mount
	PFA111	Mount Adapter
	AC24V/3A	Power Adapter
	PFA140	Power Box
	PFB300C	Ceiling Mount
	PFA120	Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet Mount

Accessories

Included:



PFB303W Wall Mount



PFA111 Mount Adapter



AC24V/3A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

Ceiling Mount	Junction Mount
PFA111 + PFB300C	PFA111 + PFB303W + PFA120
Power Box Mount	Pole Mount
PFA111 + PFB303W + PFA140	PFA111 + PFB303W + PFA150
Corner Mount	Parapet Mount
PFA111 + PFB303W + PFA151	PFA111+ PFB303S

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