

DH-SD6AE233XA-HNR

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 200m
- · IP67, IK10















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 Spe	cification					General Intelligence	
Camera					Motion detection, Video tampering , Scene		
Image Sensor 1/1.3		1/1.8"	1/1.8" CMOS			Event Trigger	changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly
Effective Pixels		1920(F	1920(H) x 1080(V), 2 Megapixels			General Intelligence	Object Abandoned/Missing
Scanning System		Progressive				Video	
Electronic Shutter Speed		1/1s~1/30,000s				Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)
Minimum Illumination		Color: 0.001Lux@F1.5; B/W: 0.0001Lux@F1.5;				Streaming Capability	3 Streams
IR Distance		OLux@F1.5 (IR on) Distance up to 200m (656ft)				Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280×7 20)/D1(704×576/ 704×480)/CIF(352×288/352×240)
IR On/Off Control		Auto/Manual				Main stream: 1080P/1.3M/ 720P(1~50/60fps)	
IR LEDs		10				Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Lens							Sub stream2: 1080P/1.3M/720P/D1/CIF
Focal Length		5.8mm	n~191.4mm			Bit Rate Control	(1~25/30fps) CBR/VBR
Max. Aperture		F1.5~ I	F4.8				
Angle of View		H: 60.2	1° ~ 3.2° V: 35.3° ~ 1.8	°; D: 67.9° ~ 3.7°		Bit Rate	H.265/H.264: 3Kbps ~ 20480Kbps
Optical Zoom		33x				Day/Night	Auto(ICR) / Color / B/W
Focus Control		Auto/ľ	Auto/Manual			Backlight Compensation	BLC / HLC / WDR(120dB)
Iris Contol		Auto/Manual				White Balance	Auto, ATW, Indoor, Outdoor, Manual
Close Focus Distanc	·e	100mm~ 1000mm				Gain Control	Auto / Manual
DORI Distance		1001111	1000			Noise Reduction	Ultra DNR (2D/3D)
	stance is a "gen	eral prox	ximity" of distance wh	ich makes it easy to		Motion Detection	Support
pinpoint the right ca	amera for your	needs. T	he DORI distance is ca ording to EN 62676-4 v	lculated based on		Region of Interest	Support
criteria for Detect, (Observe, Recog	nize and	nize and Identify respectively.			Electronic Image Stabilization (EIS)	Support
Detect	Observe		Recognize	Identify		Defog	Support
1655m(5430ft)	622m(2041	ft)	331m(1086ft)	165m(541ft)		Digital Zoom	16x
PTZ						Flip	180°
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180°					Up to 24 areas
Manual Control Spe	eed	Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s				Privacy Masking	Op to 24 aleas
Preset Speed		Pan: 240° /s; Tilt: 200° /s				Audio	G.711a; G.711Mu; AAC; G.722.1; G.726; MPEG2-
Presets		300				Compression	Layer2; G.729
PTZ Mode		5 Pattern, 8 Tour(up to 32 preset per tour), Auto Pan, 5 Auto Scan				Network	
Speed Setup		Human-oriented focal Length/ Speed adaptation				Ethernet	RJ-45 (10Base-T/100Base-TX)
Power up Action		Auto restore to previous PTZ and lens status after power failure				Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period				Interoperability	ONVIF Profile S&G, API
Protocol		DH-SD, Pelco-P/D (Auto recognition)				Streaming Method	Unicast / Multicast
Artificial Intelligence	ce					Max. User Access	19 users
Perimeter Protection		Tripwire, Intrusion. Support alarm triggering by target types(human and vehicle)				Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
		Filtering out false alarms caused by animals, rustling leaves, bright lights, etc			Web Viewer	IE, Chrome, Firefox, Safari	
Auto Tracking		Support				Management Software	Smart PSS, DSS, DMSS
Video Structuralization		Support human, motor vehicle and non-motor vehicle image capture				Smart Phone	IOS, Android

Certifications

Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014
Port	
RS485	1
Audio I/O	1/1
Alarm I/O	7/2

Electrical

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

Environmental

Operating Conditions	-40°C ~ 70°C (-40°F ~ +158°F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Ф240(mm) x 382 (mm)
Net Weight	6.75kg(14.88lb)
Gross Weight	10.1kg(22.27lb)

Ordering Information Part Number Description Type 2MP 33x Starlight IR PTZ AI DH-SD6AE233XA-HNR Network Camera, WDR, PAL 2MP 33x Starlight IR PTZ AI DH-SD6AE233XAN-HNR Network Camera, WDR, NTSC 2MP PTZ Camera 2MP 33x Starlight IR PTZ AI SD6AE233XA-HNR Network Camera, WDR, PAL 2MP 33x Starlight IR PTZ AI SD6AE233XAN-HNR Network Camera, WDR, NTSC PFB303W Wall Mount PFA111 Mount Adapter AC24V/3A Power Adapter PFA140 Power Box Accessories 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



PFA151



PFB303S Parapet Mount

Pole Mount	Corner Mour	nt Parapet M	lount
Ceiling Mount		Junction Mount	
PFA111 + PFB300C		PFA111 + PFB303W + PFA	120
Power Box Mour	it	Pole Mount	
PFA111 + PFB303W + PFA	\140	PFA111 + PFB303W + PFA	150
Corner Mount		Parapet Mount	
PFA111 + PFB303W + PI	A151	PFA111+ PFB303S	

Dimensions (mm)



