



DH-SD6AE233XA-HNR

2MP 33x Starlight + IR WizMind Network PTZ Camera



- · 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
- · SMD PLUS
- · IP67, IK10















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.

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 $^{\circ}$ C to +70 $^{\circ}$ C (-40 $^{\circ}$ F to +158 $^{\circ}$ 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.

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				SMD PLUS	Support		
Camera						Auto Tracking	Support
Image Sensor	1/1.8" CMOS					Face Detection	Support
Pixel	2MP					Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.
Max. Resolution	1920 (H) x 1080 (V)					Video	
Scanning System	Progressive	Progressive				Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)
Electronic Shutter Speed	1/1s-1/30,000s					Streaming Capability	3 Streams
Min. Illumination	Color: 0.001Lux@F1.5; B/W: 0.0001Lux@F1.5; 0Lux@F1.5 (IR on)					Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280×72 0)/D1(704×576/ 704×480)/CIF(352×288/352×240)
Illumination Distance	Distance up	to 200m (65	6ft)			Frame Rate	Main stream: 1080P/1.3M/ 720P(1~50/60fps)
Illuminator On/Off Control	Auto/Manu	al					Sub stream1: D1/CIF(1 ~ 25/30fps)
Illuminator Number	10	10					Sub stream2: 1080P/1.3M/720P/D1/CIF
Lens						Bit Rate Control	(1~25/30fps) Variable/Constant
Focal Length	5.8mm-191	1.4mm				Bit Rate	H.265/H.264: 3Kbps – 20480Kbps
Max. Aperture	F1.5-F4.8	F1.5-F4.8					
Field of View	H: 60.1° – 3	H: 60.1° – 3.2° V: 35.3° – 1.8°; D: 67.9° – 3.7°				Day/Night	Auto(ICR)/Color/B/W
Optical Zoom	33x	33x				BLC	Support
Focus Control	Auto/Manual				White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Iris Contol Auto/Manual				Gain Control	Auto / Manual		
Close Focus Distance	100mm-10	100mm-1000mm				Noise Reduction	Ultra DNR (2D/3D)
	Detect	Observe	Recognize	Identify		Motion Detection	Support
DORI Distance	1655m	622m	331m	165m		Region of Interest	Support
PTZ	(5430ft)	(2041ft)	(1086ft)	(541ft)		Image Stabilization	Electronic
Pan/Tilt Range	Pan: 0° –36	0° endless: Ti	lt: -20° – 90°,a	uto flip 180°		Defog	Support
Manual Control Speed			,			Digital Zoom	16x
Preset Speed	Pan: 0.1° –200° /s; Tilt: 0.1° –120° /s Pan: 240° /s; Tilt: 200° /s				Flip	180°	
Presets	300				Privacy Masking	Up to 24 areas	
Tour	8 (up to 32 presets per tour)				Audio		
Pattern	5					Compression	G.711a; G.711Mu; AAC; G.722.1; G.726; MPEG2- Layer2; G.729
Scan	5					Network	
Speed Adjustment	Support					Ethernet	RJ-45 (10Base-T/100Base-TX)
Power-off Memory	Support	Support					IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP,
Idle Motion	Preset/Tour/Pattern/Scanning					Protocol	ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Protocol	DH-SD, Pelco-P/D (Auto recognition)					Interoperability	ONVIF Profile S&G&T, API
General Intelligence				Streaming Method	Unicast / Multicast		
Motion detection, Video tampering , Scene Event Trigger changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly				User/Host	19 users		
IVS					Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB	
Artificial Intelligence						Browser	IE, Chrome, Firefox, Safari
Dorimotor Protoctice	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering					Management Software	Smart PSS, DSS, DMSS
Perimeter Protection false alarms caused by animals, rustling leaves, bright lights, etc.				Mobile Phone	IOS, Android		

Certification

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

Power

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

Environment

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

Structure

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

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

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

Dimensions (mm)

