



DH-SD6AE233XA-HNR

2MP 33x Starlight + IR WizMind Network PTZ Camera



- · 2x 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 °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 $\pm 25\%$ 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.



Wiz Mind | DH-SD6AE233XA-HNR

Technical Specification

Camera				
Image Sensor	Dual -senso	r 1/1.8" CMO	S	
Pixel	2MP			
Max. Resolution	1920 (H) x 1080 (V)			
Scanning System	Progressive			
Electronic Shutter Speed	1/1s-1/30,000s			
Min. Illumination	Color: 0.0004Lux@F1.5; B/W: 0.0001Lux@F1.5; 0Lux@F1.5 (IR on)			
Illumination Distance	Distance up to 200m (656ft)			
Illuminator On/Off Control	Auto/Manual			
Illuminator Number	10			
Lens				
Focal Length	5.8mm-191.4mm			
Max. Aperture	F1.5-F4.8	F1.5-F4.8		
Field of View	H: 60.1° – 3.2° V: 35.3° – 1.8°; D: 67.9° – 3.7°			
Optical Zoom	33x			
Focus Control	Auto/Manual			
Iris Contol	Auto/Manual			
Close Focus Distance	100mm-1000mm			
	Detect	Observe	Recognize	Identify
DORI Distance	1655m (5430ft)	622m (2041ft)	331m (1086ft)	165m (541ft)
PTZ				
Pan/Tilt Range	Pan: 0° –360° endless; Tilt: -20° – 90°,auto flip 180°			
Manual Control Speed	Pan: 0.1° –200° /s; Tilt: 0.1° –120° /s			
Preset Speed	Pan: 240° /s	s; Tilt: 200° /s		
Presets	300	300		
Tour		presets per to	our)	
Pattern	5			
Scan		5		
Speed Adjustment Power-off Memory	Support			
	Support	12		
Idle Motion	Preset/Tour	Preset/Tour/Pattern/Scanning		
Protocol	DH-SD, Pelc	o-P/D (Auto re	cognition)	
General Intelligence	Motion det	ection. Video t	ampering Sc	ene
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly			
IVS	Object Abandoned/Missing			
Artificial Intelligence				
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.			

SMD PLUS	Support
Auto Tracking	Support
Face Detection	Support
Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.
Video	
Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)
Streaming Capability	3 Streams
Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280×72 0)/D1(704×576/704×480)/CIF(352×288/352×240)
	Main stream: 1080P/1.3M/ 720P(1~50/60fps)
Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
	Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps)
Bit Rate Control	Variable/Constant
Bit Rate	H.265/H.264: 3Kbps – 20480Kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Support
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	Ultra DNR (2D/3D)
Motion Detection	Support
Region of Interest	Support
Image Stabilization	Electronic
Defog	Support
Digital Zoom	16x
Flip	180°
Privacy Masking	Up to 24 areas
Audio	
Compression	G.711a; G.711Mu; AAC; G.722.1; G.726; MPEG2- Layer2; G.729
Network	
Ethernet	RJ-45 (10Base-T/100Base-TX)
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
Interoperability	ONVIF Profile S&G&T, API
Streaming Method	Unicast / Multicast
User/Host	19 users
Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
Browser	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, DMSS
Mobile Phone	IOS, Android

Wiz Mind | DH-SD6AE233XA-HNR

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 \sim 70°C (-40°F \sim +158°F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Structure	
Casing	Metal
Dimensions	Φ240(mm) x 382 (mm)
Net Weight	6.75kg(14.88lb)
Gross Weight	10.1kg(22.27lb)

Ordering Information

Туре	Model	Description	
2MP WizMind PTZ Camera	DH-SD6AE233XA-HNR	2MP 33x Starlight+ IR PTZ WizMind Network Camera, WDR, PAL	
	DH-SD6AE233XAN- HNR	2MP 33x Starlight+ IR PTZ WizMind Network Camera, WDR, NTSC	
	SD6AE233XA-HNR	2MP 33x Starlight+ IR PTZ WizMind Network Camera, WDR, PAL	
	SD6AE233XAN-HNR	2MP 33x Starlight+ IR PTZ WizMind Network Camera, WDR, NTSC	
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:

Optional:



Wall Mount Bracket

PFA140

Power Box





AC24V/3A

Power Adapter

PFA111 Mount Adapter







PFB300C Ceiling Mount Bracket



000



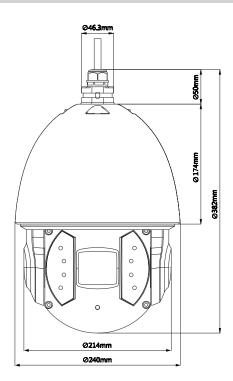
PFA150 Pole Mount Bracket

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)



Rev 001.001 © 2020 Dahua . All rights reserved. Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.