



DH-SD65F233XA-HNR

2MP 33x Starlight+ WizMind Network PTZ Camera



Wiz Mind

- 1/1.8" 2Megapixel CMOS
- · Powerful 33x optical zoom
- · Starlight+ technology
- Max. 50/60fps@1080P
- Deep-learning-based auto tracking and perimeter protection
- · Support POE+
- · 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 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 ±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					IVS	Object Abandoned/Missing
Camera					Artificial Intelligence	
Image Sensor	1/1.8" CMOS				Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.
Pixel	2MP				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.
Max. Resolution	1920 (H) x 1080 (V)					
ROM	4GB				SMD PLUS	Support
RAM	1GB				Auto Tracking	Support
Electronic Shutter Speed	1–1/30000 s	5			Face Detection	Support
Scanning System	Progressive				Video	
Min. Illumination	Color: 0.001 B/W: 0.0001				Compression	H.265/H.265+/H.264+/H.264/MJPEG (sub stream)
Illumination Distance	NA				Streaming Capability	3 streams
Illuminator On/Off Control	NA					1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280
Illuminator Number	NA				Resolution	×720); D1 (704 × 576/704×480); CIF (352 × 288/352 × 240)
Lens					Frame Rate	Main stream: 1080P/1.3M/720P (1–50/60fps) Sub stream 1: D1/CIF (1–25/30fps)
Focal Length	5.8 mm-191	.4 mm			Bit Rate Control	Sub stream 2: 1080P/1.3M/720P/D1/CIF (1–25/30fps) Variable Bit Rate/Constant Bit Rate
Max. Aperture	F1.5-F4.8				Bit Rate	H.265/H.264: 3 kbps–20480 kbps
Field of View	H: 60.1°-3.2°	°; V: 35.3°–1.8°	'; D: 67.9°–3.7°			Auto (ICR)/Color/B/W
Optical Zoom	33x	33x			Day/Night	
Focus Control	Auto/Semi-Auto/Manual 0.1 m-1 m (0.33 ft-3.28 ft)				BLC	Support
Close Focus Distance					WDR	120 dB
Iris Control	Auto/Manual		HLC	Support		
DON Distance	Detect	Observe	Recognize	Identify	White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural light/Street lamp
DORI Distance	1655 m (5429.80 ft)	622 m (2040.68 ft)	331 m (1085.96 ft)	165 m (541.34 ft)	Gain Control	Auto/Manual
PTZ					Noise Reduction	2D/3D
Pan/Tilt Range		Pan: 0°–360° Tilt: -20°–+90° Pan: 0.1°/s–300°/s			Motion Detection	Support
					Region of Interest	Support
Manual Control Speed	Tilt: 0.1°/s-1 Pan: 600°/s	50°/s			Image Stabilization	Electronic
Preset Speed	Tilt: 500°/s				Defog	Support
Presets	300				Digital Zoom	16x
Tour		resets per tou	r)		Flip	0°/180°
Pattern	5				Privacy Masking	Up to 24 areas
Scan	5				Audio	
Speed Adjustment	Support	Support			Compression	G.711A; G.711Mu; G.726; AAC; G.722.1; G.723; G.729; PCM; MPEG2-Layer2
Power-off Memory	Support				Certification	T Civi, Wil Edz EdyCl2
Idle Motion		/Pattern/Scani	ning			CE: EN55032/EN55024/EN50130-4
Protocol	DH-SD Pelco-P/D (a	uto recognitio	n)		Certifications	FCC: Part15 subpartB,ANSI C63.4-2014
General Intelligence					Port	
Event Trigger	Motion detection, video tampering, scene changing, Event Trigger network disconnection, IP address conflict, illegal		Audio Input	1 (LINE IN; bare wire)		
		ork disconnection, ir address connect, inegal ss, and storage anomaly.			Audio Out	1 (LINE OUT; bare wire)

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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; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPOE; ARP; RTCP
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% PoE+ (802.3at)
Power Consumption	20W 34W (heater on)

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LII	vII	UI	 CIIL

Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Humidity	≤95%RH
Protection	IP67; IK10; TVS 8000V lightning proof; surge protection

34W (heater on)

Structure

Casing	Metal
Dimensions	Ф242 mm x 341 mm (9.53" × 13.43")
Net Weight	4.5 kg (9.92 lb)
Gross Weight	9.75 kg (21.50 lb)

Ordering Information				
Туре	Model	Description		
	DH-SD65F233XA-HNR	2MP 33x Starlight+ WizMind Network PTZ Camera, WDR, PAL		
2MP WizMind	DH-SD65F233XAN-HNR	2MP 33x Starlight+ WizMind Network PTZ Camera, WDR, NTSC		
PTZ Camera	SD65F233XA-HNR	2MP 33x Starlight+ WizMind Network PTZ Camera, WDR, PAL		
	SD65F233XAN-HNR	2MP 33x Starlight+ WizMind Network PTZ 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

PFA150

Pole Mount Bracket



PFB300C Ceiling Mount Bracket



PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket

PFA120

Junction Box

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[inch])

