

DH-SD65F233XA-HNR

2MP 33x Starlight + 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 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 POE+
- 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 $\pm 25\%$ 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.



Pro Al Series | DH-SD65F233XA-HNR

Technical Specification					Artifical Intelligence	
Camera					Video Metadata	Support human, motor vehicle and non-motor vehicle image capture.
Image Sensor	1/1.8" CMO	1/1.8" CMOS				
Max. Resolution	1920 (H) x 1080 (V)				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.
Effective Pixels	2MP					
ROM	4GB				Auto Tracking	Support
RAM	1GB				General Intelligence	
Electronic Shutter Speed	1–1/30000 s				Event Trigger	Motion detection, video tampering, scene changing, network disconnection, IP address conflict, illegal
Scanning System	Progressive				Event Trigger	access, and storage anomaly.
Min. Illumination	Color: 0.001 B/W: 0.0001				General IVS	Object Abandoned/Missing
IR Distance	NA				Video	
IR On/Off Control	NA				Compression	H.265/H.265+/H.264+/H.264/MJPEG (sub stream)
IR LEDs Number	NA				Streaming Capability	3 streams
Lens					Resolution	1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 ×720); D1 (704 × 576/704×480); CIF (352 × 288/352 × 240)
Focal Length Max. Aperture	5.8 mm–191.4 mm F1.5–F4.8				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)
Field of View		°; V: 35.3°–1.8°	• D• 67 9°–3 7°		Bit Rate Control	Variable Bit Rate/Constant Bit Rate
Optical Zoom	33x	,	, 0. 01.5 5.7			
Focus Control		Auto/Manual			Bit Rate	H.265/H.264: 3 kbps–20480 kbps
Close Focus Distance					Day/Night	Auto (ICR)/Color/B/W
Iris Control		0.1 m-1 m (0.33 ft-3.28 ft)			BLC	Support
	/ aco mana	Auto/Manual			WDR	120 dB
	Detect	Observe	Recognize	Identify	HLC	Support
DORI Distance	1655 m (5429.80 ft)	622 m (2040.68 ft)	331 m (1085.96 ft)	165 m (541.34 ft)	White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural light/Street lamp
ΡΤΖ					Gain Control	Auto/Manual
	Pan: 0°–360	•			Noise Reduction	2D/3D
Pan/Tilt Range	Tilt: -20°-+9	0°			Motion Detection	Support
Manual Control Speed	Pan: 0.1°/s-3 Tilt: 0.1°/s-1				Region of Interest	Support
Preset Speed	Pan: 600°/s Tilt: 500°/s				Electronic Image Stabilization	Support
Presets	300	300			Defog	Support
Tour	8 (up to 32 p	8 (up to 32 presets per tour)			Digital Zoom	16x
Pattern Number	5				Flip	0°/180°
Scanning Number	5				Privacy Masking	Up to 24 areas
Speed Adjustment	Support				Audio	
Power-off Memory	Support				Compression	G.711A; G.711Mu; G.726; AAC; G.722.1; G.723; G.729; PCM; MPEG2-Layer2
Idle Motion	Preset/Tour/Pattern/Scanning				Certification	
Protocol	DH-SD Pelco-P/D (auto recognition)				Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4-2014
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Port			I
Audio In	1 (LINE IN; bare wire)		I
Audio Out	1 (LINE OUT; bare wire)		,
Alarm Port	7/2		I
Network		Accessories	I
Ethernet	RJ-45 (10/100Base-T)		I
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		1
Interoperability	ONVIF Profile S&G CGI		
Streaming Method	Unicast/Multicast	Accessori	es
User/Host	20 (Total bandwidth 48M)	Included:	
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	PFB303	w
Smart Phone	IOS/Android	Wall Mou	
Power		Optional	:
Power Supply	AC24V/3A±25% PoE+ (802.3at)		
Power Consumption	20W 34W (heater on)		
Environment		PFA140	
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	Power Bo	X
Operating Humidity	≤95%RH		>
Ingress Protection	IP67; IK10; TVS 8000V lightning proof; surge protection	C	フフ
Structure		PFA150	
Casing	Metal	Pole Mou	
Dimensions	Φ242 mm x 341 mm (9.53" × 13.43")		
Net Weight	4.5 kg (9.92 lb)		
Gross Weight	9.75 kg (21.50 lb)		

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:



Wall Mount



PFA111

Mount Adapter



AC24V/3A Power Adapter



PFA120 Junction Box



PFB303S Parapet Mount

PFA140 Power Box



PFA150 Pole Mount



PFB300C

Ceiling Mount

PFA151 Corner Mount











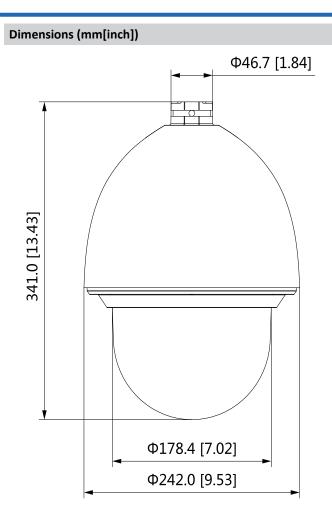
www.dahuasecurity.com

Ordering Information

Туре	Model	Description
	DH-SD65F233XA-HNR	2MP 33x Starlight PTZ Al Network Camera, WDR, PAL
2MP PTZ	DH-SD65F233XAN-HNR	2MP 33x Starlight PTZ AI Network Camera, WDR, NTSC
Camera	SD65F233XA-HNR	2MP 33x Starlight PTZ AI Network Camera, WDR, PAL
	SD65F233XAN-HNR	2MP 33x Starlight PTZ Al Network Camera, WDR, NTSC

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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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