

4K IR PTZ Network Camera

4K 30x IR PTZ Network Camera



- 1/1.7-in. 8 MP Progressive Scan STARVIS™ CMOS Sensor
- Powerful 30x Optical Zoom Lens
- Smart H.265+ and H.264 Dual Codecs
- 12 MP at 20 fps or 8 MP at 30 fps Maximum Resolution
- Intelligent Video System with Auto-tracking
- Predictive Focus Analysis (PFA) Technology
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP67 Ingress Protection and IK10 Vandal Resistance
- Maximum IR Distance up to 200 m (656 ft)
- Supports Hi-PoE
- Five-year Warranty*



System Overview

The 4K IR PTZ Dome camera features a 1/1.7-in STARVIS[™] CMOS imager with a 30x optical zoom lens, and provides an all in one solution for capturing long-distance video surveillance for outdoor applications. The camera uses the Smart H.265+ video compression standard to improve encoding efficiency while preserving high-quality video. The PTZ camera is equipped with quick and accurate pan/tilt/zoom control and Digital WDR for applications with direct sunlight or glare.

Functions

Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

PFA Technology

The camera uses innovative PFA Technology to improve zoom accuracy and to decrease focus time. A series of advanced algorithms more accurately judge the direction and the distance to a subject, improving picture clarity throughout the zooming process.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

ArcticPro

The Dahua ArcticPro Series of extreme-environment cameras combine temperature-tolerant components, a waterproof enclosure, and an integrated heater to ensure flawless operation in temperatures as low as -40° C (-40° F). For applications that demand high-resolution video with advanced features in extremely cold environments, the Dahua ArcticPro Series offers a camera to satisfy the most demanding requirements.

Environmental

The camera complies with the IK10 Vandal Resistance impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.). Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.



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Ultra Series | 6AE830VNI

Technical Specification

Camera					
Image Sensor		1/1.7-	1/1.7-in. STARVIS™ CMOS		
Effective Pixels		3840(1	3840(H) x 2160(V), 8 MP		
RAM/ROM		1024	1024 MB / 128 MB		
Scanning System		Progre	Progressive		
Electronic Shutter Speed		1/1 s t	1/1 s to 1/30,000 s		
Minimum Illumination		Color: 0.05 Lux at F1.6 0 Lux with IR on			
S/N Ratio		More than 56 dB			
IR Distance		Distance up to 200 m (656.17 ft)			
IR On/Off Control		Auto, Manual			
IR LEDs		10			
Lens					
Focal Length		6 mm	6 mm to 180 mm		
Max. Aperture		F1.6 to	F1.6 to F4.8		
Angle of View		Horizo	Horizontal: 61.2° to 2.1°		
Optical Zoom		30x	30x		
Focus Control		Auto,	Auto, Manual		
Close Focus Dis	tance	100 m	100 mm to 1000 mm		
DORI Distan	ice ¹				
Detect	Observe		Recognize	Identify	
3892 m (12,769 i	ft) 1557 m (51	08 ft)	778 m (2552 ft)	389 m (1276 ft)	
PTZ					
Pan/Tilt Range		Tilt: -2	Pan: 0° to 360° endless Tilt: -20° to 90°, Auto Flip 180°		
Manual Contro	l Speed		Pan: 0.1° to 200° /s Tilt: 0.1° to 120° /s		
Preset Speed			Pan: 240° /s; Tilt: 200° /s		
Presets		300	300		
PTZ Mode		5 Patte	5 Pattern, 8 Tour, Auto Pan ,Auto Scan		
Speed Setup		Huma	n-oriented focal Length	n/ speed adaptation	
Power up Actio	n		Auto restore to previous PTZ and lens status after power failure		
Idle Motion			Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		
Protocol		DH-SD	DH-SD, Pelco-P/D (Auto recognition)		
Video					
Compression		Smart	Smart H.265+, H.265, Smart H.264+, H.264		
Streaming Capability		Three	Three (3) Streams		
Resolution		1.3 MI	12 MP, 8 MP (3840 x 2160), 1080p (1920 x 1080), 1.3 MP (1280 x 960), 720p (1280 x 720), D1 (704 x 380), CIF (352 x 240)		
	Main Stream	12 MP	12 MP at 20 fps or 8 MP, 1080p, 1.3 MP, 720p at 30 fps		
Frame Rate	Sub Stream 1	D1, CI	D1, CIF at 30 fps		
	Sub Stream 2	1080p	1080p, 720p, D1 at 30 fps		

1. The DORI distance is a general proximity of distance helping to pinpoint the correct camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify.

Bit Rate Control	CBR, VBR			
Bit Rate	H.265 / H.264: 256 K to 8192 Kbps, MJPEG: 56 K to 20480 Kbps			
Day/Night	Auto (ICR), Color, B/W			
Backlight Compensation	BLC, HLC, DWDR			
White Balance	Auto, ATW, Indoor, Outdoor, Manual			
Gain Control	Auto, Manual			
Noise Reduction	Ultra DNR (2D/3D)			
Advanced Features	Motion Detection, Region of Interest, Electronic Image Stabilization (EIS), Defog			
Digital Zoom	16x			
Flip	180°			
Privacy Masking	Up to 24 areas			
Audio				
Compression	G.711a, G.711Mu, PCM, G.726, AAC, G722.1, G.729, MPEG2-Layer2			
Network				
Ethernet	RJ-45 (10 Base-T/100 Base-TX)			
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x			
Interoperability	ONVIF, PSIA, CGI			
Streaming Method	Unicast / Multicast			
Max. User Access	20 users			
Edge Storage	NAS (Network Attached Storage) Local PC for instant recording Micro SD Car, maximum 128 GB			
Web Viewer	IE 10, Firefox, Safari			
Management Software	Smart PSS, DSS			
Mobile Operating System	IOS, Android			
Certifications				
CE	EN55032 EN55024 EN50130-4			
UL	UL60950-1+CAN/CSA C22.2,No.60950-1			
Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B ANSI C63.4- 2014			
Interface				
Video	One (1) BNC (1.0 Vp-p, 75 Ω)			
Audio	Input: One (1) Channel Output: One (1) Channel			
RS485	One (1)			
Alarm	Input: Seven (7) Channels Output: Two (2) Channels			
Electrical				
Power Supply	24 VAC, 3 A (± 25%), Hi-PoE			
Power Consumption	24 W, 38 W with IR on			

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Environmental

	Environmental					
	Operating Conditions	-40° C to 70° C (-40° F to +158° F) Less than 95% RH				
	Ingress Protection	IP67				
Vandal Resistance		IK10				
	Construction					
Casing		Metal				
Dimensions		ø240.0 mm x 382.0 mm (ø9.45 in. x 15.04 in.)				
Net Weight		6.75 kg (14.88 lb)				
	Gross Weight	10.10 kg (22.27 lb)				
	Intelligence					
	IVS triggers an alarm and takes a	triggers an alarm and takes a defined action for the following events:				
	Standard Features	 Tampering with the camera. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera. 				
Premium Features						
	Motion	An object moves through any part of the scene.				
	Tripwire	A target crosses a user-defined line.				
	Intrusion	A target enters or exits a defined perimeter.				
	Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.				
	Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.				
Advanced Features						
	Facial Detection	Detects and captures a snapshot of a human face in a defined area within a scene.				
	Heat Map	Generates a visual representation of data.				
	Auto-tracking	Controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene.				

Ordering Information

Туре	Part Number	Description
4K PTZ Camera	6AE830VNI	4K 30x IR PTZ Network Camera, IVS
	PFA111	Mount Adapter
Accessories, Included	PFB303W	Wall Mount
	AC24V/3A	Power Adapter
	PFA120	Junction Box
	PFA140	Power Box
	PFA150	Pole Mount
Accessories, Optional	PFA151	Corner Mount
	PFB300C	Ceiling Mount
	PFB303S	Parapet Mount

Accessories

Included:

Optional:



Wall Mount

PFA140

Power Box

PFA150 Pole Mount



PFA111

Mount Adapter



AC24V/3A Power Adapter







PFB300C Ceiling Mount

PFA120 Junction Box



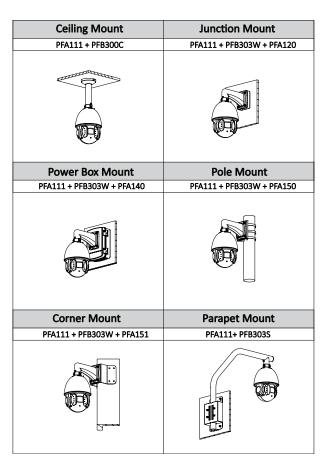


Corner Mount



PFB303S Parapet Mount

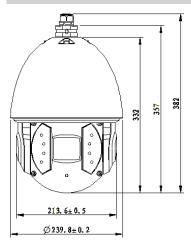
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Dimensions (mm)







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