

4 MP PTZ Network Camera

30x PTZ Network Camera



- 1/3-in. 4 MP Progressive Scan CMOS
- Powerful 30x Optical Zoom
- H.265 and H.264 Video Compression Encoding
- 4 MP / 3 MP at 30 fps and 1080p at 30/60 fps
- True Wide Dynamic Range
- Intelligent Video System (IVS) with Auto-tracking
- IP67 Environmental Protection Rating and IK10 Vandal Resistance
- Designed for extreme temperature environments: -40° C to +60° C (-40° F to +140° F)
- PoE+ Support
- Five-year Warranty



System Overview

The 4 MP PTZ Dome camera features a 1/3-in 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 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 True WDR for applications with direct sunlight or glare.

Functions

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.

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 optional 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.

Defog

Utilizing Dahua's advanced algorithm technology, the Defog feature dynamically adjusts the camera's contrast settings to provide improved image quality in scenes affected by fog, smog, mist, smoke or other low-contrast interference.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) and to the PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Pro Series | 50430UN

Technical Specification

Camera

Camera				
Image Sensor		1/3-in. CMOS		
Effective Pixels		2592(H) x 1520(V), 4 MP		
RAM/ROM		1024 MB / 128 MB		
Scanning System		Progressive		
Minimum Illumination		Color: 0.05 Lux at F1.6 B/W: 0.005 Lux at F.16		
S/N Ratio		More than 55 dB		
Lens				
Focal Length		4.5 mm to 135 mm		
Max. Aperture		F1.6 to F4.4		
Angle of View		Horizontal: 2.2° to 60°		
Optical Zoom		30x		
Focus Control		Auto, Manual		
Close Focus Distance		100 mm to 1000 mm		
PTZ				
Pan/Tilt Range		Pan: 0° to 360° endless Tilt: 0° to 90°, Auto Flip 180°		
Manual Control Speed		Pan: 0.1° to 350° /s Tilt: 0.1° to 250° /s		
Preset Speed		Pan: 500° /s Tilt: 500° /s		
Presets		300		
PTZ Mode		5 Pattern, 8 Tour, Auto Pan, Auto Scan		
Speed Setup		Human-oriented Focal Length, Speed Adaptation		
Power up Actio	n	Auto restore to previous PTZ and lens status after power failure		
Idle Motion		Activate Preset, Scan, Tour, or Pattern if there is no command in the specified period		
Protocol		DH-SD		
Video				
Compression		H.265, H.264, MJPEG		
Streaming Capability		Three (3) Streams		
Resolution		4 MP (2592 x 1520), 3 MP (2304 x 1296), 1080p (1920 x 1080), 720p (1280 x 720), D1 (704 x 480), CIF (352 x 240)		
	Main Stream	4 MP, 3 MP at 30 fps or 1080p, 1.3 MP, 720p at 60 fps ¹		
Frame Rate	Sub Stream 1	D1, CIF at 30 fps		
	Sub Stream 2	1080p, 1.3 MP, 720p at 30 fps		

Bit Rate Control	CBR, VBR		
Bit Rate	H.265/H.264: 448 K to 8192 Kbps MJPEG: 5120 K to 10240 Kbps		
Day/Night	Auto (ICR), Color, B/W		
Backlight Compensation	BLC, HLC, WDR (120 dB)		
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, AAC, G.722, G.726, G.729, MPEG2-L2		
Network			
Ethernet	RJ-45 (10/100 Base-T)		
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, 128 GB		
Web Viewer	IE 10, Firefox, Safari		
Management Software	Smart PSS, DSS		
Mobile Operating System	IOS, Android, Windows		
Certifications			
CE	EN 55032 EN 55024 EN 50130-4		
UL	UL: UL60950-1 + CAN/CSA C22.2, No.60950-1		
Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014		
Interface			
Audio Interface	In: One (1) Channel Out: One (1) Channel		
Alarm	In: Two (2) Channels Out: One (1) Channel		
Electrical	(-)		
Power Supply	24 VAC, 1.5 A (±10%), PoE+ (802.3at)		
Power Consumption	13 W, 23 W with heater on		

1. Although this model supports streaming resolutions of 1080p, 1.3 MP, or 720p at 60 fps, the manufacturer recommends streaming only a resolution of 1080p at 60 fps, and resolutions of 1.3 MP or 720p at 30 fps.

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Environmental

2				
Operating Conditions	-40° C to 60° C (-40° F to +140° F), Less than 90% RH			
Ingress Protection	IP67			
Vandal Resistance	IK10			
Lightning Protection Rating	6 kV			
Construction				
Casing	Metal			
Dimensions	Ф186.0 mm x 253.0 mm (7.20 in. x 9.96 in.)			
Net Weight	2.50 kg (5.51 lb)			
Gross Weight	4.50 kg (9.92 lb)			

Intelligence

IVS 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.				
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.				
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
4 MP PTZ Camera	50430UNI	4 MP 30x PTZ Network Camera, WDR, IVS
Accessories, included	PFB300S	Wall Mount
	PFA110	Mount Adapter
	AC24V/1.5A	Power Supply
	PFA140	Power Box
	PFB300C	Ceiling Mount
Accessories,	PFA120	Junction Box
optional	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet Mount

Accessories

Included:

Optional :



PFA140

Power box

PFA150

Pole Mount





AC24V/1.5A

Power Supply

PFA110 Mount Adapter







PFB300C Ceiling Mount

PFA120 Junction Box



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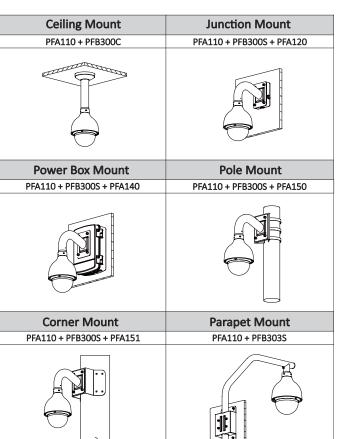


PFA151

Corner Mount

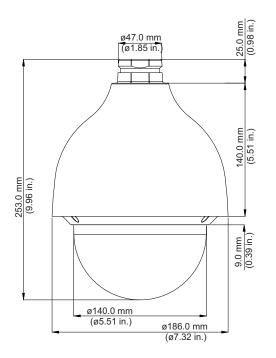


PFB303S Parapet Mount





Dimensions (mm)





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