

4 MP PTZ Network Camera

30x IR 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
- Max. IR distance up to 100 m (328 ft)
- IP66 Environmental Protection Rating
- Designed for extreme temperature environments: -40° C to +60° C (-40° F to +140° F)
- Five-year Warranty



System Overview

The 4 MP IR 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

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. 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 | 6C430UNI

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 0 Lux at F1.6 (IR on)	
S/N Ratio		More than 55 dB	
IR Distance		Distance up to 100.0 m (328.10 ft)	
IR On/Off Control		Auto, Manual	
IR LEDs		Six (6)	
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: -15° to 90°, Auto Flip 180°	
Manual Control Speed		Pan: 0.1° to 160° /s Tilt: 0.1° to 120° /s	
Preset Speed		Pan: 240° /s Tilt: 200° /s	
Presets		300	
PTZ Mode		5 Pattern, 8 Tour, Auto Pan, Auto Scan	
Speed Setup		Human-oriented Focal Length, Speed Adaptation	
Power up Action		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, Pelco-P/D (auto recognition)	
Video			
Compression		H.265, H.264, MJPEG	
Streaming Capa	ability	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)	
Frame Rate	Main Stream	4 MP, 3 MP at 30 fps or 1080p, 1.3 MP, 720p at 60 fps ¹	
	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, True 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			
Video Interface	One (1) BNC		
Audio Interface	ln: One (1) Channel Out: One (1) Channel		
RS485	One (1)		
Alarm	In: Two (2) Channels Out: One (1) Channel		
Electrical			
Power Supply	24 VAC, 3 A (± 10%)		
Power Consumption	10.5 W, 26 W with IR 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.

Pro Series | 6C430UNI

Environmental				
Operating Conditions	-40° C to 60° C (-40° F to +140° F), Less than 90% RH			
Ingress Protection	IP66			
Lightning Protection Rating	6 kV			
Construction				
Casing	Metal			
Dimensions	Φ204.70 mm x 359.90 mm (Φ8.06 in. x 14.17 in.)			
Net Weight	7.80 kg (17.20 lb)			
Gross Weight	8.30 kg (18.30 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.			

Standard Features	 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
4 MP PTZ Camera	6C430UNI	4 MP 30x IR PTZ Network Camera, WDR, IVS
Accessories, included	64FB	Wall Mount
	AC24V/3A	Power Supply
	PFA114	Mount Adapter
	PFB303W	Wall Mount
	PFA140	Power box
Accessories,	PFB300C	Ceiling Mount
optional	PFA120	Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet mount

Accessories

Included:





64FB Wall Mount

AC24V/3A Power Supply

Optional :



PFA114

Mount Adapter















PFB300C Ceiling Mount





PFA150

Pole Mount

PFA140

Power box



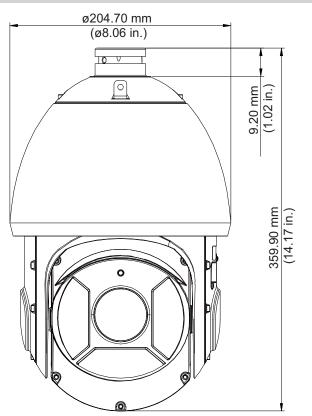
PFA151 Corner Mount

PFB303S Parapet Mount

Ceiling Mount	Junction Mount
PFA114 + PFB300C	PFA114 + PFB303W + PFA120
Power Box Mount	Pole Mount
PFA114 + PFB303W + PFA140	PFA114 + PFB303W + PFA150
Corner Mount	Parapet Mount
PFA114 + PFB303W + PFA151	PFA114+ PFB303S



Dimensions (mm)





Rev 001.007 © 2017 Dahua. All rights reserved. Design and specifications are subject to change without notice.