

# 4 MP PTZ Network Camera

30x IR PTZ Network Camera





#### **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 offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

- 1/3-in. 4 MP Progressive-scan CMOS Sensor
- Powerful 30x Optical Zoom
- Smart 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
- Predictive Focus Algorithm (PFA) Technology
- Maximum IR distance up to 100 m (328 ft)
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP66 Ingress Protection
- Five-year Warranty\*









#### 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.

#### Predictive Focus Algorithm (PFA) Technology

The innovative PFA Technology is a series of built-in algorithms that improve zoom accuracy and decrease focus time. As the camera zooms in on a subject, PFA controls the zoom rate and the focus control to keep the subject in focus. This technology ensures the subject stays in focus during the entire zoom 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  $-40^{\circ}$  C ( $-40^{\circ}$  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

Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications.



	Technical Specification			Bit Rate Control	CBR, VBR	
Camera			Bit Rate	H.265/H.264: 448 K to 8192 Kbps		
Image Sensor		1/3-in. CMOS			Day/Night	Auto (ICR), Color, B/W
Effective Pixels 2592(H) x 1520(V), 4 MP			Backlight Compensation	BLC, HLC, True WDR (120 dB)		
RAM/ROM		1024 N	ИВ / 128 MB		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Scanning Syste	Scanning System Progressive		Gain Control	Auto, Manual		
Electronic Shutter Speed 1/1 s to 1/30,000 s		Noise Reduction	Ultra DNR (2D/3D)			
Minimum Illumination  Color: 0.05 lux at F1.6  0 lux at F1.6 with IR on		Advanced Features	Motion Detection, Region of Interest,			
S/N Ratio More than 55 dB			Electronic Image Stabilization (EIS), Defog			
IR Distance		Distance up to 100.0 m (328.10 ft)		Digital Zoom	16x	
IR On/Off Cont	rol	Auto, N	<i>M</i> anual		Flip	180°
IR LEDs		Six (6)		Privacy Masking	Up to 24 areas	
Lens					Audio	
Focal Length		4.5 mm to 135 mm		Compression	G.711a, G.711Mu, AAC, G.722, G.726, G.72 MPEG2-L2	
Max. Aperture		F1.6 to F4.4		Network		
Angle of View Optical Zoom		Horizontal: 2.2° to 60° 30x			DI 45 /10 Page T/100 Page TVI	
Focus Control		Auto, Manual		Ethernet	RJ-45 (10 Base-T/100 Base-TX)	
Close Focus Distance		100 mm to 1000 mm		Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, U ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonj	
DORI¹ Dista	nce					802.1x
Detect (8 ppf	f) Observe (1	L9 ppf)	Recognize (38 ppf)	Identify (76 ppf)	Interoperability	ONVIF, PSIA, CGI
2700 m (8858 f	ft) 1080 m (35	543 ft)	540 m (1772 ft)	270 m (886 ft)	Streaming Method	Unicast / Multicast
PTZ					Max. User Access	20 users
Pan/Tilt Range		Pan: 0° to 360° endless Tilt: –15° to 90°, Auto Flip 180°		Edge Storage	NAS (Network Attached Storage) Local PC for instant recording	
Manual Contro	l Speed	Pan: 0.1° to 160° /s Tilt: 0.1° to 120° /s			Micro SD Card Slot, maximum 128 GB	
Preset Speed		Pan: 240° /s Tilt: 200° /s		Web Viewer	IE 10, Firefox, Safari	
Presets		300		Management Software	Smart PSS, DSS	
PTZ Mode			ern, 8 Tour, Auto Pan, Au	uto Scan	Mobile Operating System	IOS, Android
Speed Setup		Human-oriented Focal Length, Speed Adaptation			,	
Power up Action		Auto restore to previous PTZ and lens status after		Certifications		
Idle Motion		power failure  Activate Preset, Scan, Tour, or Pattern if there is no		CE	EN 55032 EN 55024 EN 50130-4	
Protocol		command in the specified period  DH-SD, Pelco-P/D (auto recognition)		UL	UL: UL60950-1 + CAN/CSA C22.2, No.60950	
Video		DIF-3D, Pelco-P/D (auto recognition)		Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014	
Compression		Smart H.265+, H.265, Smart H.264+, H.264		Interface		
Compression	ability	Three (3) Streams			0 (4) PNG (4 0 ) ( 75 0 ) 0	
·	Resolution		4 MP (2592 x 1520), 3 MP (2304 x 1296), 1080p (1920 x 1080), 720p (1280 x 720),		Video	One (1) BNC (1.0 Vp-p, 75 Ω) Output
Streaming Capa		1080p	(1920 x 1080), 720p (12	280 x 720),	Audio	Input: One (1) Channel Output: One (1) Channel
Streaming Capa	Main Stream	1080p D1 (704 4 MP, 3		280 x 720), )	Audio RS485	Input: One (1) Channel Output: One (1) Channel One (1)

1080p, 1.3 MP, 720p, D1, or CIF at 30 fps

Sub Stream 2

Electrical

**Power Supply** 

Power Consumption

24 VAC, 3 A (± 10%) 10.5 W, 26 W with IR on

The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the right
camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results
according to EN 62676-4, the standard that defines the criteria for the Detect, Observe, Recognize and
Identify classifications.

#### Environmental

Operating Conditions	$-40^{\circ}$ C to $60^{\circ}$ C ( $-40^{\circ}$ F to $+140^{\circ}$ F), Less than 95% RH
Ingress Protection	IP66
Lightning Protection Rating	6 kV

#### Construction

Casing	Metal
Dimensions	Ø204.70 mm x 359.90 mm (Ø8.06 in. x 14.17 in.)
Net Weight	5.0 kg (11.02 lb)
Gross Weight	8.30 kg (18.30 lb)

#### Intelligence

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IVS triggers an alarm and takes a	defined action for the following events:			
Standard Features	<ul> <li>Tampering with the camera.</li> <li>Error writing to an onboard Micro SD card.</li> <li>Error sending or receiving data over the network.</li> <li>Unauthorized access to the camera.</li> </ul>			
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				
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 Adapter	
	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:







AC24V/3A Power Adapter

#### Optional:



Mount Adapter





PFB303W Wall Mount



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



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

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### Dimensions (mm/in.)



