

4MP Starlight Network PTZ

25x IR Network Camera with Analytics+



- 1/2.8-in. 4 MP Progressive-scan CMOS Sensor
- Powerful 25x Optical Zoom Lens
- Smart H.265+ and Smart H.264+ Dual Codecs
- 4 MP at 30 fps Maximum Resolution
- True Wide Dynamic Range (120 dB)
- Starlight Technology for Ultra Low-light Sensitivity
- Predictive Focus Algorithm
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- Analytics+ Function Perimeter Protection, Smart Motion Detection, and Face Detection
- Maximum IR Distance up to 100 m (328 ft)
- IP66 Ingress Protection
- Five-year Warranty*



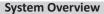












The 4 MP PTZ Dome camera features a 1/2.8-in CMOS imager with a 25x optical zoom lens, and provides an all in one solution for capturing long-distance video surveillance for outdoor applications. The camera uses the Smart H.265+ video compression standard to improve encoding efficiency while preserving high-quality video. The PTZ camera is equipped with quick and accurate pan/tilt/zoom control and True WDR for applications with direct sunlight or glare.

Functions

Perimeter Protection

Dahua Analytics+ includes Tripwire and Intrusion functions that offer custom tripwires based on object type for automation in limited access areas. Perimeter Protection requires less pixels to detect an object to deliver improved accuracy and decreased false alarms due to lights, weather, trees, or animals.

Smart Motion Detection

Smart Motion Detection, a component of Dahua's Analytics+ technology, improves alarm accuracy and decreases the number of false alarms. The advanced SMD algorithm analyzes a scene for human or vehicle motion, while filtering out other motion due to trees, leaves, animals, weather, and triggers an alarm when detected. SMD also saves time when searching recorded video by filtering false alarms and allowing quick retrieval of an alarm due to a person or vehicle.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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.

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

Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.



Image Sensor	Technical Specification					Bit Rate Control	CBR, VBR
Effective Pixels 2560(H) x 1440(V), 4 MP RAM/ROM 1 GR / 4 GR Scanning System Progressive Electronic Shutter Speed 1/1 s to 1/3,000 s Electronic Shutter Speed 1/1 s to 1/3,000 s Electronic Shutter Speed 1/1 s to 1/3,000 s Minimum illumination Olive Auto, Manual Shutter Prior IR Distance Distance up to 10.0 m (328,08 ft) IR On/Off Control Zoom Priority, Manual, Smart IR, Off Digital Zoom 16x Elens Focal Lens Focal Length 4.8 mm to 120 mm Maximum Aperture F1.6 to F4.0 Angle of View Privacy Masking Up to 24 are Digital Zoom 2.723, MPES Angle of View Digital 30.8" to 2.2" Digital 25 on To 2.5" Vertical 30.8" to 2.2" Digital 25 on To 2.5" Network Distance Up to 1.5 m (0.33 ft to 4.92 ft) DORI Distance Detect (8 ppf) Observe (19 ppf) Recognize (38 ppf) Identify (76 ppf) 2540 m (8333 ft) 1016 m (3333 ft) 508 m (1667 ft) 254 m (833 ft) PTZ Pan/Tilt Range Pan: 0" to 360" endies Tilt: -15" to 90", Auto Flip 180" Manual Control Speed Pan: 0.1" to 200"/5 Tilt: -15" to 90", Auto Flip 180" Preset Speed Pan: 0.1" to 200"/5 Tilt: -15" to 90", Auto Flip 180" Preset Speed Pan: 0.1" to 100"/5 Tilt: 200"/5 Preset Speed Setup Human-oriented focal Lengthy speed adaptation Idle Motion Auto Root Pans (10 on Command in the specified period Protocol Input One (EM) Speed Auto Input One (EM) Speed Auto Input One (EM) Speed Setup Input One (EM) Speed Auto Input One (EM) Speed A	-					Bit Rate	H.265 / H.264: 3 Kbps to 20480 Kbps
RAM/ROM 1 6B / 4 6B White Balance Sodium Lam Scanning System Progressive Progressive Progressive Gain Control Auto Manual Shutter Prior Shutter Speed 1/1 s to 1/30,000 s Shutter Speed I/1 s to 1/30,000 s Shutter Speed I/1 s to 1/30,000 s Shutter Speed Shutter Speed I/1 s to 1/30,000 s Shutter Speed Shutter Speed I/1 s to 1/30,000 s Shutter Speed I/1 s to 1/30,000 s Shutter Speed Shutter Speed I/1 s to 1/30,000 s Shutter Speed I/1 s Shutter Speed Shutter Speed I/1 s Shutter Speed Shutter Speed I/1 s Sh			1/2.8-in. CMOS		Day/Night	Auto (ICR), Color, B/W	
Scanning System Progressive Electronic Shutter Speed 1/1 s to 1/30,000 s Electronic Shutter Speed 1/1 s to 1/30,000 s Minimum Illumination Color. 0,005 lux at F1.6 b O Lux with IR on O Liva	Effective Pixels		2560(H) x 1440(V), 4 MP		Backlight Compensation	BLC, HLC, True WDR (120 dB)	
Scanning System Progressive Electronic Shutter Speed 1/L s to 1/30,000 s Calor-0.005 lox at F1.6 Shutter Speed Calor-0.005 lox at F1.6 Shutter Speed Calor-0.005 lox at F1.6 OLux with IR on Distance with IR on Digital Zoom 15% Electronic line IR On/Off Control Zoom Priority, Manual, Smart IR, Off Digital Zoom 15% Electronic line IR On/Off Control Zoom Priority, Manual, Smart IR, Off Digital Zoom 15% Electronic line IR On/Off Control Zoom Priority, Manual, Smart IR, Off Digital Zoom 15% Electronic line IR On/Off Control Audion Audio	RAM/ROM		1 GB / 4 GB			White Balance	Auto, Indoor, Outdoor, ATW, Manual,
Electronic Shutter Speed 1/1, s to 1/30,000 s Minimum Illumination	Scanning System		Progre	essive			Sodium Lamp, Natural, Street Lamp
Minimum Illumination BRW. 0.0005 lux at F1.6 OLux with IR on IR Distance Distance up to 100.0 m (328.08 ft) IR On/Off Control Zoom Priority, Manual, Smart IR, Off Illuminators Focal Length Addio Lens Focal Length Angle of View Automatic, Semi-automatic, Manual Focus Control Automatic, Semi-automatic, Manual Close Focus Distance Detect (8 ppf) Observe (19 ppf) Recognize (38 ppf) Detect (8 ppf) Observe (19 ppf) Recognize (38 ppf) Detect (8 ppf) Annual Control Speed Titl: -15" to 90", Autor Bill 180" Prior to 360" endless Titl: -15" to 90", Autor Bill 180" Titl: -15" to 90", Autor Bill 180" Preset Speed Pan: -21" to 200"/s Titl: -10" to 120"/s Preset Speed Pan: -22" -22" Power up Action Autor Preset' Scan/ Tour/ Pattern if there is no command in the specified period Protocol DH-SD, Pelco-P/D (Auto recognition) Advanced Features Advanced Features Advanced Features Badvanced Features Advanced Features Badvanced Features Believronic in 16x Filip Digital Zoom 16x Filip Privacy Masking Up to 24 are Filip Privacy Masking Up to 24 are Filip Audio Filip Compression Compression Compression Compression Compression Compression Compression Compression Compression Filip Compression Compression Network Ethernet Ru45 (10/10 Compression Compression Compression Filip Protocol Distance Filip Protocol Automatic, Semi-automatic, Manual Protocol Distance Filip Protocol Automatic, Manual Protocol Automatic, Semi-automatic, Manual Protocol Distance Filip Protocol Automatic, Manual Protocol Distance Filip Protocol Automatic, Manual Protocol Distance Filip Protocol Distance Filip Protocol Automatic, Manual Protocol Distance Filip Protocol Distance	Electronic Shutter Speed		1/1 s to 1/30,000 s			Gain Control	Auto, Manual, Aperture Priority, Gain Priority, Shutter Priority
IR Distance Distance up to 100.0 m (328.08 ft) Advanced Features Electronic in IR On/Off Control Zoom Priority, Manual, Smart IR, Off Pilp 180°	Minimum Illumination		B/W: 0.0005 lux at F1.6			Noise Reduction	Ultra DNA (2D/3D)
Illuminators Four (a) Four (b) Four (b) Filip 180°	IR Distance					Advanced Features	Motion Detection, Region of Interest, Electronic Image Stabilization (EIS), Defog
Lens Focal Length	IR On/Off Cont	rol	Zoom	Priority, Manual, Smart	IR, Off	Digital Zoom	16x
Focal Length 4.8 mm to 120 mm Maximum Aperture F1.6 to F4.0 Angle of View Vertical: 30.8" to 2.2" Diagonal: 66.7" to 2.9" Optical Zoom 25x Iris Control Automatic, Manual Focus Control Automatic, Semi-automatic, Manual Close Focus Distance 0.1 m to 1.5 m (0.33 ft to 4.92 ft) DORI Distance¹ Detect (8 ppf) Observe (19 ppf) Recognize (38 ppf) Identify (76 ppf) 2540 m (8333 ft) 1016 m (3333 ft) 508 m (1667 ft) 254 m (833 ft) PTZ Pan/Tilt Range Pan: 0" to 360" endless Tilt: -15" to 90", Auto Flip 180" Preset Speed Pan: 240" /s; Tilt: 200" /s Preset Speed Pan: 240" /s; Tilt: 200" /s Presets 300 PTZ Mode 5 Pattern, 8 Tour (up to 32 presets per tour), 5 Scan Speed Setup Human-oriented focal Length/ speed adaptation 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, Pelco-P/D (Auto recognition) Autic letterface (Input: One (input:	Illuminators					Flip	180°
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Angle of View Horizontal: 60.0" to 2.5" Vertical: 30.8" to 2.2" Diagonal: 66.7" to 2.9" Optical Zoom 25x Iris Control Automatic, Manual Focus Control Automatic, Semi-automatic, Manual DORI Distance DORI Distance Detect (8 ppf) Observe (19 ppf) Recognize (38 ppf) Dost (19 ppf) Protocol Pan: 0" to 360" endless Tilt: -15" to 90", Auto Flip 180" Preset Speed Pan: 0.1" to 200" /s Tilt: 0.20" /s Tilt: 0.20" /s Presets Speed Setup Human-oriented focal Length/ speed adaptation Automatic (Semi-automatic, Manual Protocol Protocol Compression G.723, MPEC Network Ethernet RJ45 (10/100 RP45 (10/			4.8 mm to 120 mm		Audio		
Angle of View Vertical: 30.8" to 2.2" Diagonal: 66.7" to 2.9" Detect (8 ppf) Observe (19 ppf) Recognize (38 ppf) Identify (76 ppf) Detect (8 ppf) Observe (19 ppf) Recognize (38 ppf) Identify (76 ppf) Pan/Tilt Range Pan: 0" to 360" endless Tilt: -15" to 90", Auto Flip 180" Preset Speed Pan: 240" /s; Tilt: 200" /s Presets Speed Setup Human-oriented focal Length/ speed adaptation Protocol Detact (a Automatic, Semi-automatic, Manual Protocol Protocol Ethernet RJ45 (10/100 IPv4/IPv6, H RJ45 (10/100 IPv4/IPv6, H RJ45 (10/100 IPv4/IPv6, H RJ45 (10/100 IPv4/IPv6, H Interoperability Inter	Maximum Ape	rture		F1.6 to F4.0		Compression	G.711a, G.711Mu, G.726, AAC, G.722.1, G.729, G.723, MPEG2-L2
Iris Control Automatic, Manual Focus Control Automatic, Semi-automatic, Manual Close Focus Distance DORI Distance Detect (8 ppf) Doserve (19 ppf) Recognize (38 ppf) Identify (76 ppf) 2540 m (8333 ft) PTZ Pan/Tilt Range Pan: 0° to 360° endless Tilt: -15° to 90°, Auto Flip 180° Preset Speed Pan: 240° /s; Tilt: 200° /s Presets Preset Speed Pan: 240° /s; Tilt: 200° /s Presets Pr	Angle of View		Vertica	Vertical: 30.8° to 2.2°		Network	
Focus Control Automatic, Semi-automatic, Manual Close Focus Distance 0.1 m to 1.5 m (0.33 ft to 4.92 ft) DORI Distance Detect (8 ppf) Doserve (19 ppf) 2540 m (8333 ft) Doserve (19 ppf) Pan: 0 to 360° endless Tilt: -15° to 90°, Auto Flip 180° Pan: 240° /s; Tilt: 200° /s Preset Speed Pan: 240° /s Presets Speed Setup Human-oriented focal Length/ speed adaptation Power up Action Autor estore to previous PTZ and lens status after power failure Protocol DH-SD, Pelco-P/D (Auto recognition) Protocol Autio laterface Protocol Autor estore to previous PTZ and lens status after power failure Protocol Autor estore to previous PTZ and lens status after power failure Protocol	Optical Zoom		25x			Ethernet	RJ45 (10/100 Base-T)
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DORI Distance ¹ Detect (8 ppf) Observe (19 ppf) Recognize (38 ppf) Identify (76 ppf) 2540 m (8333 ft) 1016 m (3333 ft) 508 m (1667 ft) 254 m (833 ft) PTZ Pan: 0° to 360° endless Tilt: -15° to 90°, Auto Flip 180° Manual Control Speed Pan: 0.1° to 200° /s Tilt: 0.1° to 120° /s Tilt: 200° /s Preset Speed Pan: 240° /s; Tilt: 200° /s Presets 300 PTZ Mode 5 Pattern, 8 Tour (up to 32 presets per tour), 5 Scan Speed Setup Human-oriented focal Length/ speed adaptation Power up Action Auto restore to previous PTZ and lens status after power failure Interoperability Streaming Method Unicast / Mix Max. User Access 19 users 19 users Network Att. Local PC for Micro SD Call Page Storage Web Viewer Web Viewer Web Viewer Smart PSS, D Management Software Smart PSS, D Mobile Operating System 10S, Android Certifications Certifications Safety UL 62368-1 CAN/CSA C2 EI Electromagnetic Compatibility (EMC) ANSI C63.4-2 ANSI C63.4-2 Interface Input: One (C						1100001	DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
Detect (8 ppf) Observe (19 ppf) Recognize (38 ppf) Identify (76 ppf) 2540 m (8333 ft) 1016 m (3333 ft) 508 m (1667 ft) 254 m (833 ft) PTZ Pan/Tilt Range Pan: 0° to 360° endless Tilt: -15° to 90°, Auto Flip 180° Manual Control Speed Pan: 0.1° to 200° /s Tilt: 0.1° to 120° /s Preset Speed Pan: 240° /s; Tilt: 200° /s Presets 300 PTZ Mode S Pattern, 8 Tour (up to 32 presets per tour), 5 Scan Speed Setup Human-oriented focal Length/ speed adaptation Power up Action Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period Protocol DH-SD, Pelco-P/D (Auto recognition) Streaming Method Unicast / Mix Max. User Access 19 users 19 users Network Att. Local PC for Micro Speed Set 19 users Network Att. Local PC for Micro Speed Set 254 m (833 ft) Max. User Access 19 users Redge Storage Web Viewer Fleating Method Max. User Access 19 users Set 254 m (833 ft) Max. User Access 19 users Network Att. Local PC for Micro Spe Can Set 254 m (833 ft) Frest Speed Set 254 m (833 ft) Edge Storage Web Viewer Web Viewer Fleating Method Max. User Access 19 users Edge Storage Web Viewer Fleating Method Max. User Access 19 users Metwork Att. Local PC for Micro Sp Can Micro Sp Can Speed Set 254 m (833 ft) From Viewer Speed Set 254 m (833 ft) Edge Storage Web Viewer Fleating Method Max. User Access 19 users Edge Storage Web Viewer Fleating Method Max. User Access 19 users Edge Storage Web Viewer Fleating Method Micro Sp Can Set 254 m (833 ft) Fleating Method Max. User Access 19 users Network Att. Local PC for Micro Sp Can Set 254 m (833 ft) Fleating Method Max. User Access 19 users Redge Storage Web Viewer Fleating Method Max. User Access 19 users Edge Storage Web Viewer Fleating Method Max. User Access 19 users Edge Storage Web Viewer Fleating Method Max. User Access 19 users Edge Storage Web Viewer Fleating Method Max. User Access 19 users Redge Storage Web Viewer Fleating Method Max. User Access 19 users Set 254 m (833 ft) Fleating Method Max. User Access 1			0.1111	0.1 III to 1.5 III (0.55 It to 4.92 It)		Interoperability	ONVIF (Profile S and G), CGI
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Speed Setup Human-oriented focal Length/ speed adaptation 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, Pelco-P/D (Auto recognition) Safety CE EN 55032, EI Electromagnetic Compatibility (EMC) Interface Audio Interface Input: One (3)	PTZ Mode		5 Pattern, 8 Tour (up to 32 presets per tour), 5 Scan		Certifications	111 62260 1	
Power up Action Power failure Idle Motion Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period Protocol DH-SD, Pelco-P/D (Auto recognition) Electromagnetic Compatibility (EMC) ANSI C63.4:2 Interface Input: One (3)	Speed Setup		Human-oriented focal Length/ speed adaptation		Safety	CAN/CSA C22.2, No. 62368-1	
Idle Motion Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period Protocol DH-SD, Pelco-P/D (Auto recognition) Electromagnetic Compatibility (EMC) ANSI C63.4:2 Interface Input: One (3	Power up Action			Auto restore to previous PTZ and lens status after		CE	EN 55032, EN 55024, EN 50130-4
Protocol DH-SD, Pelco-P/D (Auto recognition) Interface Audio Interface Input: One (3)	·		Activa	power failure			47 CFR FCC Part 15 Subpart B ANSI C63.4:2014
Audio Interface Input: One (:	Protocol				Interface		
			S. S. S. F. C. C. F. S. (Auto recognition)		Audio Interface	Input: One (1) Channel Output: One (1) Channel	
Compression	Compression				Alarm	Input: Two (2) Channels Output: One (1) Channel	
Streaming Capability Three (3) Streams	Streaming Capability		Three (3) Streams		Flactuical		
4 MP (2560 X 1440), 3 MP (2048 X 1536), Resolution 1080p (1920 x 1080), 1.3 MP (1280 x 960), 730c (1200 x 730), PM (730 x 230), CM (750 x 240) 12 VDC, 3 A	Resolution		1080p (1920 x 1080), 1.3 MP (1280 x 960),			12 VDC, 3 A or PoE+ (IEEE802.3at Class 4)	
720p (1280 x 720), D1 (704 x 380), CIF (352 x 240) Main Stream 4 MP at 30 fps Power Consumption Available 13 W Main Stream	Main Stream				Power Consumption		
Frame Rate Sub Stream 1 D1, CIF at 30 fps	Frame Rate	Sub Stream 1	D1, CII	F at 30 fps			Maximum: 21 W with IR on

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.

Sub Stream 2 1080p, 1.3 MP, 720p at 30 fps

Environmental			
Operating Conditions	-40° C to 70° C (-40° F to +158° F) Less than 95% RH		
Ingress Protection	IP66		
Surge Protection	TVS 6000V		
Construction			
Casing	Metal		
Dimensions	ø160.0 mm x 295.0 mm (ø6.30 in. x 11.61 in.)		
Net Weight	3.0 kg (6.61 lb)		
Gross Weight	4.80 kg (10.58 lb)		
Analytics+ Functions			
Perimeter Protection	Detects human or vehicle violations using the following methods: Tripwire: a target crosses a defined line. Intrusion: a target enters or exits a defined perimeter. Monitors a combination of ten (10) detection		

methods.

vehicle objects.

other inconsequential objects.

• Search and retrieve video based on target type.

• Differentiates between and classifies human and

• Extracts human or vehicle objects from recorded video for quick target search and retrieval.

• Detects and captures a snapshot of a human face

• Filters false alarms due to leaves, lights, animals, and

Face Detection ²	within a scene.	
Intelligent Video System	n Functions	

Smart Motion Detection²

Face Detection³

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. IP Address Conflict
Premium Features	
Motion	An object moves through any part of the scene.
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.

Ordering Information					
Туре	Part Number	Description			
4 MP PTZ Camera	49425XBNR	4 MP 25x Starlight IR PTZ Network Camera, True WDR, Analytics+			
Accessories, Included	PFB305W	Wall Mount			
	PFA111	Mount Adapter			
	PFA120	Water-proof Junction Box			
	PFA140	Power Box			
Accessories,	PFA150	Pole Mount			
Optional	PFA151	Corner Mount			
	PFB300C	Ceiling Mount			
	PFB303S	Parapet Mount			
	S042-1A120300HU	Power Adapter			

Accessories

Included:



PFB305W Wall Mount

Optional:



PFA111 Mount Adapter



PFB300C Ceiling Mount



PFA120 Junction Box



PFA151 Corner Mount



PFA140 Power box



S042-1A120300HU Power Supply



PFA150 Pole Mount



PFB303S Parapet Mount



Pair a Smart Motion Detection camera with a Dahua recording device that also offers SMD functionality to take advantage of SMD alarm filtering and object classification when searching and playing back recorded video.

^{3.} The Face Detection, Perimeter Protection, and the Core Analytics functions cannot be used at the same time, only one Analytics+ or Core Analytic function can be used at a time.

Ceiling Mount	Junction Mount
PFA111 + PFB300C	PFB305W + PFA120
Power Box Mount	Pole Mount
PFB305W + PFA140	PFB305W + PFA150
Corner Mount	Parapet Mount
PFB305W + PFA151	PFA111+ PFB303S

Dimensions (mm/in.)

