

4 MP Network PTZ Camera

32x Starlight PTZ Network Camera with Analytics+





WizSense Series devices combine Dahua's powerful Analytics+ with an intuitive and easy to use interface. WizSense devices offer Smart Motion Detection+ and Perimeter Protection functions that focus on human and vehicular images and ignore irrelevant images to capture important video while reducing false alarms. WizSense Series devices provide powerful general surveillance for small to medium size businesses at a sensible price.

System Overview

The 4 MP Starlight PTZ Dome camera features a 1/2.8-in. STARVIS™ CMOS imager with a 32x 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.

Face Detection

The camera detects and captures a snapshot of human face in a defined area within a scene. This technology supports detecting, tracking, capturing and selecting the best face image, and then outputs a face snapshot.

- 1/2.8-in. 4 MP STARVIS™ CMOS Sensor
- 4 MP (2560 x 1440) at 30 fps Maximum Resolution
- Triple-stream Encoding
- Smart H.265+ and Smart H.264+ Dual Codec
- Powerful 32x Optical Zoom
- Starlight Technology for Ultra-low Light Sensitivity
- True Wide Dynamic Range (120 dB)
- Analytics+ Function Perimeter Protection, Smart Motion Detection+
- Predictive Focus Analysis (PFA) Technology
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP67 Ingress Protection and IK10 Vandal Resistance
- Auto-tracking
- Five-year Warranty*



Predictive Focus Analysis 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.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers light sensitivity that captures 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.

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.

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.

Cybersecurity

Dahua network cameras are equipped with a series of key cybersecurity technologies including: security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage. These technologies improve the camera's ability to prevent malicious access and to protect data.

Environmental

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

Camera			
Image Sensor		1/2.8-in. STARVIS™ CN	MOS Sensor
Effective Pixels		2560(H) x 1440(V), 4 N	MP
RAM/ROM		1 GB / 4 GB	
Scanning System		Progressive	
Electronic Shutter S	peed	1/1 s to 1/30,000 s	
Minimum Illumination		Color: 0.005 lux at F1. B/W: 0.0005 lux at F1.	
S/N Ratio		≥ 55 dB	
Lens			
Focal Length		4.9 mm to 156.0 mm	
Maximum Aperture		F1.35 to F4.4	
	Horizontal	61.6° to 2.1°	
Angle of View	Vertical	35.1° to 1.3°	
0	Diagonal	68.2° to 2.5°	
Optical Zoom Focus Control		32x	matic Fixed
	-	Automatic, Semi-auto	mm (3.28 ft to 4.92 ft)
Close Focus Distanc		1000.0 mm to 1500.0	mm (3.28 ft to 4.92 ft)
DORI Distance ¹			
Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)
3120.0 m (10236.22 ft)	1232.0 m (4041.99 ft)	624.0 m (2047.24 ft)	312.0 m (1023.62 ft)
PTZ			
Pan/Tilt Range		Pan: 0° to 360° endles Tilt: 0° to 90° Auto Flip 180°	ss,
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 Foca Adaptation	l Length, Speed
Power up Action		Auto restore to previo after power failure	ous PTZ and lens status
Idle Motion		Activate Preset, Scan, no command in the sp	Tour, Pattern if there is pecified period
Protocol		DH-SD, Pelco-P/D (Aut	to-recognition)
Video			
Compression		Smart H.265+, H.265, H.264H, H.264M, MJP	Smart H.264+, H.264B, EG (sub stream only)
Streaming Capability		Three (3) Streams	
Resolution		4 MP (2560 x 1440), 3 1080p (1920 x 1080), 720p (1280 x 720), D1 CIF (352 x 240)	1.3 MP (1280 x 960),
		4 MD at 20 fps	
	Main Stream	4 MP at 30 fps	
Frame Rate	Main Stream Sub Stream 1	D1 or CIF at 30 fps	

1.	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.

Bit Rate Control	CBR, VBR
Bit Rate	H.265/H.264: 3 Kbps to 20480 Kbps
Day/Night	Auto (ICR), Color, B/W
Backlight Compensation	BLC, HLC, True WDR (120 dB)
White Balance	Auto, Indoor, Outdoor, ATW, Manual, Sodium Lamp, Natural, Street Lamp
Gain Control	Auto, Manual, Aperture Priority, Gain Priority, Shutter Priority
Noise Reduction	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, up to eight (8) areas in same view
Audio	
Compression	G.711a, G.711Mu, G.722.1, G.726,G.729, MPEG2-L2, G.723
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 (Profiles S, G, T), PSIA, CGI
Streaming Method	Unicast / Multicast
Maximum User Access	20 Users (Total Bandwidth: 64 Mbps)
Edge Storage	Network Attached Storage (NAS), FTP, Micro SD Card, up to 256 GB
Web Viewer	IE 7 and later, Firefox 52 and later, Chrome 42 and later, Safari
Management Software	DSS, DMSS
Mobile Operating System	IOS, Android
Cybersecurity	Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade
Certifications	
Safety	UL 62368-1 + CAN/CSA C22.2, No.62368-1
Electromagnetic Compatibility (EMC)	CF4 47 FCC Part 15 Subpart B ANSI C63.4-2014 EN 55032, EN 55024, EN 50130-4
Interface	
Audio	Input: One (1) Channel Output: One (1) Channel
RS485	One (1) Port
Alarm	Input: Two (2) Channels Output: One (1) Channel

Electrical	
Power Supply	24 VDC, 2.5 A; PoE+ (IEEE802.3at Class 4)
Power Consumption	Basic: 10 W Maximum: 16 W
Environmental	
Operating Conditions	–40° C to 60° C (–40° F to 140° F), Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Surge Protection	6 KV, lightning proof; surge protection; voltage transient protection
Construction	
Casing	Metal
Dimensions	ø186.0 mm x 253.0 mm (ø7.32 in. x 9.96 in.)
Net Weight	2.50 kg (5.51 lb)
Gross Weight	4.50 kg (9.92 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 perimete Monitors a combination of ten (10) detection method Search and retrieve video based on target type.
Face Detection	Detects and captures a snapshot of a human face within a scene.
Smart Motion Detection+	 Differentiates between and classifies human and vehicle objects. Filters false alarms due to leaves, lights, animals, and other inconsequential objects. Extracts human or vehicle objects from recorded vide for quick target search and retrieval.

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.
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	
Auto-track	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	50432XANR	4 MP 32x Starlight PTZ Network Camera, True WDR, Analytics+		
	DC24V/2.5A	Power Adapter		
Accessories,	PFA110	Mount Adapter		
meidaed	PFB300S	Wall Mount (use with PFA110 mount adapter)		
	PFA110-N	Mount Adapter (NPT 1-1/2 in.)		
	PFA120	Water-proof Junction Box		
	PFA140	Power Box		
	DH-PFA143	Outdoor Surveillance Junction Box		
	PFA150	Pole Mount		
Accessories, optional	PFA151	Corner Mount		
	DH-PFA153	Heavy-duty Pole Mount Bracket		
	PFB300C	Ceiling Mount (use with PFA110 mount adapter)		
	PFB303S	Parapet Mount (use with PFA110 mount adapter		
	PC-H84.5-147	Polycarbonate Smoke Tinted Bubble		

Accessories

Included:



PFB300S Wall Mount Optional:



PFA110 Mount Adapter



DC24V/2.5A Power Adapter

PFA140 Power Box



PFB300C Ceiling Mount



OC PF 1ount Junct



PFA151 Corner Mount



PFB303S Parapet Mount



PFA150

Pole Mount

DH-PFA143 Outdoor Surveillance Junction Box

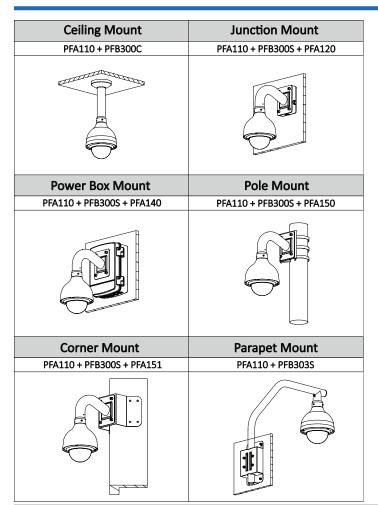


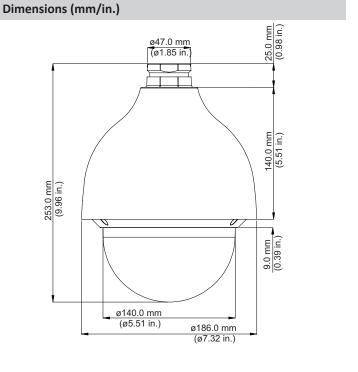
DH-PFA153 Heavy Duty Pole Mount Bracket



PC-H84.5-147 Polycarbonate Smoke Tinted Bubble







Mounting Diagram Adapter Wall Mount Ceiling Mount, **Junction Box** Pole/Corner Mount Camera PFA112 PFA113 PFA150 PFB300C PFA110 PFA120 PFB300S PFA140 PFB302S PFA151 PFB303S

