

4MP Starlight Mini Network PTZ

4x IR 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 IR Mini PTZ Dome camera features a 1/2.8-in. STARVIS™ CMOS imager with a 4x optical zoom lens. The camera uses the Smart H.265+ video compression standard to improve encoding efficiency while preserving high-quality video. The PTZ camera uses a day/night mechanical IR cut filter and True WDR to deliver crystal clear images in challenging lighting conditions.

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.

People Counting

The camera uses complex real-time people counting algorithms to deliver accurate flow statistics from two distinct people counting functions, Line Crossing and Regional. The line crossing function counts the number of people crossing a defined line, and the regional function counts the number of people in a distinct, user-defined area. People counting is ideal for measuring the number of customers entering or exiting a location and to monitor groups of people in a distinct location.

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.

- 1/2.8-in. 4 MP STARVIS™ CMOS Sensor
- 4x Optical Zoom
- Starlight Technology for Low Light Sensitivity
- Triple-stream Encoding
- Smart H.265+ and Smart H.264+ Dual Codecs
- 4 MP at 30 fps Maximum Resolution
- True Wide Dynamic Range (120 dB)
- Analytics+ Function Perimeter Protection, People Counting, Smart Motion Detection, and Face Detection
- Maximum IR Distance 15 m (49 ft)
- IP66 Ingress Protection and IK08 Vandal Resistance
- Five-year Warranty*















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.

True 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.

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.

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

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -30° C to $+60^{\circ}$ C (-22° F to $+140^{\circ}$ F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Effective Pixels	Technical Spec	incation			Video	
Effective Pixels	Camera				Compression	
Resolution 1.68/4-68 Resolution 1.68/4	Image Sensor 1/2.8-in. STARVIS™ CMOS			Streaming Capability	Three (3) Streams	
Advisor Processor Progressive Electronic Shutter Speed If 1 to 1/30,000 s Electronic Shutter Speed If 1 to 1/30,000 s Electronic Shutter Speed If 1 to 1/30,000 s Electronic Shutter Speed If 2 to 1/30,000 s Electronic Shutter Speed If 3 to 1/30 s Electronic Speed If 3 to 1/30 s E				Resolution	1080p (1920 x 1080), 1.3 MP (1280 x 960),	
Frame Rate Sub Stream 1: 01 or Cli at 30 fps	RAM/ROM	10	GB/4 GB			720p (1280 x 720), D1 (704 x 480), CIF (352 x 2-
Minimum Illumination Color: 0.005 (ux at F1.8 B/W. 0.0005 lux at B/	Scanning System	Pr	ogressive			Main Stream: 4 MP at 30 fps
Minimum Illumination BYW 00005 kx EF18 Bit Rate Control CBR, VBR	Electronic Shutter S	peed 1/	1/1 s to 1/30,000 s		Frame Rate	Sub Stream 1: D1 or CIF at 30 fps
Automatic, Semi-automatic, Manual Automatic, Semi-automatic, Manual Automatic, Semi-automatic, Manual Automatic Close Focus Distance Distrance Distrance up to 15 m (49.20 ft) Bit Rate H.265/H.264/MIPEG: 3 Kbps to 20.480 Kbps Bit Rate Day/Night Auto (ICR), Color, B/W Backlight Compensation Bit, HLC, True WDR (120 dt) Bit Rate Auto (ICR), Color, B/W Backlight Compensation Bit, HLC, True WDR (120 dt) Automatic, Manual, Sodium Lamp, Natural Light, Street Light Cain Control Automatic, Semi-automatic, Manual Advanced Features Digital Zoom Advanced Features Digital Zoom Instruction Automatic, Semi-automatic, Manual Filip Bit Rate H.265/H.264/MIPEG: 3 Kbps to 20.480 Kbps Bit Rate H.265/H.264/MIPEG: 3 Kbps to 20.480 Kbps Bit Rate Auto (ICR), Color, B/W Backlight Compensation Bit Rate H.265/H.264/MIPEG: 3 Kbps to 20.480 Kbps Bit Rate Auto (ICR), Color, B/W Backlight Compensation Bit Rate H.265/H.264/MIPEG: 3 Kbps to 20.480 Kbps Bit Rate Auto (ICR), Color, B/W Backlight Compensation Bit Rate H.265/H.264/MIPEG: 3 Kbps to 20.480 Kbps Bit Rate Auto (ICR), Color, B/W Backlight Compensation Bit Rate H.265/H.264/MIPEG: 3 Kbps to 20.480 Kbps Bit Rate Auto (ICR), Color, B/W Backlight Compensation Bit Rate H.265/H.264/MIPEG: 3 Kbps to 20.480 Kbps Bit Rate Auto (ICR), Color, B/W Backlight Compensation Bit Rate Auto (ICR), Color, B/W Backlight Co	Minimum Illumination		B/W: 0.0005 lux at F1.8			
Bit Rate H.265/H.264/MPEG: 3 kbps to 20480 k	IR Distance				Bit Rate Control	CBR, VBR
BLEDS Three (3) Lens Auto, (Cit), Color, 8/W Backlight Compensation Buc, Huc, True WoR (120 dB) Auto, Indoor, Outdoor, Track, Manual, Sodium Lamp, Natural Light, Street Light Gain Control Auto, Manual Noise Reduction 2D/3D Advanced Features Electronic Image Stabilization (EIS), Defog Digital Zoom 1cx Flip 1s0* Privacy Masking Up to 24 areas Audio Compression G.711a, G.711Mu, G.726, G.722.1, G.729, G.72 MPEG2-12 Pan: O1 to 355* Tilt: O1 to 30'/s Tilt: O1 to 30'/s Presets 300 Persets 300 Presets Auto restore to previous PTZ and lens status after power failure Power up Action Autor setzer to previous PTZ and lens status after power failure Autor setzer to previous PTZ and lens status after power failure Autor, Wantaul, Color, G.R.W Auto, (Cit), Color, 8/W Auto, (Color, 8/W) Auto, (Color, 8/W) Auto, Indoor, Outdoor, Track, Manual Auto, Manual Auto, Indoor, Outdoor, Track, Manual Auto,			Distance up to 15 m (49.20 ft)		Bit Rate	H.265/H.264/MJPEG: 3 Kbps to 20480 Kbps
Backlight Compensation Bit C, HLC, True WOR (120 d8) Auto, Indoor, Outdoor, Track, Manual, Sodium Lamp, Natural Light, Street Light Maximum Aperture F1.8 to F2.7 Moriton 154.4 fr to 17.8* Vertical 53.4 fr to 17.8* Motion Detection, Region of Interest, Electronic Image Stabilization (Els.), Defog Digital Zoom 16x Filip 180° Privacy Masking Up to 24 areas Audio Compression MPEG2-12 NetWork Ethernet RJ45 (10/100 Base-1) DN5, PPOC, DN5, FTP, IP Filler, Qo5, G-722.1, G-729, G-72 Metwork Ethernet RJ45 (10/100 Base-1) Protocol Pan. Out for 70°/5 Till: 5° to 90° Manual Control Speed Pan. Out for 70°/5 Till: 0.1° to 30°/5 Preset Speed Pan. Out for 70°/5 Till: 40°/5 Max. User Access 20 Users File Stronge Metro SD Card Slot, maximum 256 GB Web Viewer Bege Storage Mobile Operating System Mobile Operating System Video Encryption, Pirmware Encryption, Configuration Encryption, Pirmware Encryption, Configuration Encryption, Pirms, Sp. MAC Filming, Gene and Importing X-500 certification, Systep, ATIL Filming, Gene and Importing X-500 certification, Systep, ATIL Sp. Trusted Boxecution, Trusted Execution, Tr			Zoom Priority, Manual, Smart IR		Day/Night	Auto (ICR), Color, B/W
White Balance Auto, Moor, Outdoor, Track, Manual, Sodium Lump, Natural Light, Street Light Maximum Aperture F1.8 to F2.7 Moise Reduction 20/30 Noise Reduction 20/30 Advanced Features Motion Detection, Region of Interest, Electronic image Stabilization (EIS), Defog Digital Zoom 4x Digital Zoom 4x Digital Zoom Automatic, Semi-automatic, Manual Filip RIS Control Automatic Automatic Automatic DORI Distance DORI Distance DORI Distance Detect (8 prl) Detect (8 prl) Deserve (19 prl) Recognize (38 prl) Detect (8 prl) Detect (8 prl) Detect (8 prl) Privacy Masking Detect (8 prl) Detect (8 prl) Detect (8 prl) Detect (8 prl) Protocol Pan: 01 to 70 /5 Tilt: 5" to 90" Manual Control Speed Pan: 01 to 70 /5 Tilt: 01 to 70 /6 Tilt: 01 to 70 /6 Tilt: 01 to 70 /6 Tilt: 01 to 7	R LEDs	Th	Three (3)		Backlight Compensation	BLC, HLC, True WDR (120 dB)
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Angle of View		E1			Gain Control	Auto, Manual
Diagonal: 116.2* to 36.4* Advanced Features Motion Detection, Region of Interest, Electronic Image Stabilization (EIS), Defog	Maximum Aperture				Noise Reduction	2D/3D
Focus Control Automatic, Semi-automatic, Manual RIS Control Automatic Close Focus Distance 0.20 m to 0.50 m (0.66 ft to 1.64 ft) DORI Distance DORI Distance DORI Distance DORI Distance Doserve (19 ppf) Recognize (38 ppf) A7.0 m (482.28 ft) Pan: 0" to 355" Tilt: 5 to 90" Manual Control Speed Pan: 0.1" to 70" /s Tilt: 10" to 30" /s Preset Speed Pan: 80" /s Tilt: 40" /s Preset Speed Pan: 0.1" to 70" /s Tilt: 40" /s Preset Speed Attivate Preset/Tour if there is no command in the specified period Digital Zoom 16% Flip 180" Rov Flip 180" Audio Compression G711a, G711Mu, G726, G.722.1, G.729, G.722 MPEG2-1.2 Network Ethernet RJ45 (10/100 Base-T) Protocol Protocol Interoperability DNS, PPPOE, DDNS, FPP, IP Filter, QoS, Bonjou 802.1x Interoperability DNS, PPPOE, DDNS, FFP, IP Filter, QoS, Bonjou 802.1x Interoperability DNS, PPOE, DDNS, FFP, IP Filter, QoS, Bonjou 802.1x Interoperability DNS, PPOE, DDNS, FFP, IP Filter, QoS, Bonjou 802.1x Max. User Access DO Users Flip, P2P, Micro SD Card Slot, maximum 256 GB Web Viewer IE, Chrome, Firefox, Safari Management Software Mobile Operating System Ode Bortyption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Accou Lockout, Security Logs, IP/NAC Filtering, Gene and Importing X:500 certification, Syslog, HTIR, Gene and Importing X:500 certifica	Angle of View		Vertical: 51.4° to 17.8°		Advanced Features	
Flip 180° Privacy Masking Up to 24 areas Close Focus Distance 0.20 m to 0.50 m (0.66 ft to 1.64 ft) DORI Distance¹ Detect (8 ppf) Observe (19 ppf) Recognize (38 ppf) Identify (76 ppf) 47.0 m (482.28 ft) 58.80 m (192.91 ft) 29.40 m (96.46 ft) 14.70 m (48.23 ft) PTZ Pan/Tilt Range Pan: 0* to 355*	Optical Zoom	4x			Digital Zoom	16x
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I to another	ldle Motion			s no command in the	Cybersecurity	Configuration Encryption, Digest, WSSE, Accou Lockout, Security Logs, IP/MAC Filtering, Gener and Importing X.509 Certification, Syslog, HTTF 802.1x, Trusted Boot, Trusted Execution, Trust Upgrade

^{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.

Electromagnetic Compatibility

(EMC)

EN55032, EN55024, EN50130-4

47 CFR FCC Part 15 Subpart B

ANSI C63.4- 2014

Interface		
Audio	Input: One (1) Channel Output: One (1) Channel	
Electrical		
Power Supply	12 VDC, 1.5 A (±15%) or PoE (IEEE 802.3af, Class 0)	
Power Consumption	Basic: 3 W Maximum: 8.5 W with IR on	
Environmental		
Operating Temperature	-30° C to 60° C (-22° F to $+140^{\circ}$ F), Less than 95% RH	
Ingress Protection	IP66	
Vandal Resistance	IK08	
Surge Protection	TVS 6000V	
Construction		
Casing	Metal	
Dimensions	ø128.0 mm x 65.40 mm (ø5.04 in. x 2.57 in.)	
Net Weight	0.49 kg (1.08 lb)	
Gross Weight	0.70 kg (1.54 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. Search and retrieve video based on target type.
People Counting	Delivers accurate flow statistics from the following methods: Line Crossing: counts a person as they cross a threshold in a defined direction. Region: counts the number of people in a defined area. Counts people simultaneously from four (4) threshold lines and four (4) defined regions.
Smart Motion Detection ²	 Differentiates between and classify human and vehicle objects. Filters false alarms due to leaves, lights, animals, and other inconsequential objects. Extracts human or vehicle objects from recorded video for quick target search and retrieval.
Face Detection	Detects and captures a snapshot of a human face within a scene.

Intelligent Video System Functions

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	1A404XBNR	4 MP 4x Starlight IR Mini PTZ Network Camera, True WDR, Analytics+		
	PFA107	Mount Adapter		
	DH-PFA120	Junction Box (use with PFB305W Wall Mount)		
	DH-PFA140	Power Box (use with PFB305W Wall Mount)		
Accessories,	PFA150	Pole Mount (use with PFB305W Wall Mount)		
optional	PFA151	Corner Mount (use with PFB305W Wall Mount)		
	PFB220C	Ceiling Mount (requires PFA107 Mount Adapter)		
	PFB305W	Wall Mount (requires PFA107 Mount Adapter)		
	DH-PFM320D-US	12 VDC, 2 A Power Adapter		

Accessories

Optional:





PFA120

Junction Box





PFA107 Mount Adapter

PFA140 Power Box

PFA150 Pole Mount



PFA151 Corner Mount

PFB220C

Ceiling Mount







PFB305W Wall Mount

DH-PFM320D-US Power Adapter

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.

Lite Series | 1A404XBNR

Ceiling Mount (1)	Wall Mount	Ceiling Mount (2)	
	PFA107+PFB305W	PFA107+PFB220C	
Pole Mount (1)	Pole Mount (2)	Corner Mount	
PFA107+PFB305W+PFA150	PFA107+PFB220C+PFA150	PFA107+PFB305W+PFA151	



