

2MP Starlight Network PTZ Camera

32x IR PTZ Network Camera with Analytics+



Wiz Sense

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 2 MP Starlight IR 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.

• 1/2.8-in. 2 MP STARVIS[™] CMOS Sensor

- 1080p 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 and Smart Motion Detection
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP66 Ingress Protection
- Intelligent Video System with Auto-tracking
- Maximum IR Distance up to 150 m (492 ft)
- Five-year Warranty*



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.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light conditions. 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.

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° 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.



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Pro Series | 59232XANR

Technical Specification

lechnical S	pecification			
Camera				
Image Sensor		1/2.8-i	n. STARVIS™ CMOS Ser	isor
Effective Pixels		1920(†	H) x 1080(V), 2 MP	
RAM/ROM		1 GB/	4 GB	
Scanning System	n	Progre	ssive	
Electronic Shutter Speed		1/3 s t	o 1/30,000 s	
Minimum Illumination		B/W: 0	0.005 lux at F1.3 0.0005 lux at F1.3 t F1.3 with IR on	
IR Distance		Distan	ce up to 150.0 m (492.3	13 ft)
IR On/Off Contr	rol	Zoom	Priority, Manual, Smart	IR
IR LEDs		Four (4	1)	
Lens				
Focal Length		4.9 mm to 156 mm		
Max. Aperture		F1.3 to	F4.4	
	Horizontal	68.3° to 2.2°		
Angle of View	Vertical	38.9° to 1.3°		
	Diagonal	68.3° to 1.4°		
Optical Zoom		32x		
Focus Control		Auto, Semi-auto, Manual		
Close Focus Distance		100 mm to 1500 mm (0.33 ft to 4.92 ft)		
DORI Distan	ICe ¹			
Detect (8 ppf)	Observe (1	9 ppf)	Recognize (38 ppf)	Identify (76 ppf)
2092 m (6863 ft)	836 m (2742	2 ft)	418 m (1371 ft)	209 m (685 ft)
PTZ				
Pan/Tilt Range			° to 360° endless 5° to 90°	
Manual Contro	Speed		1° to 300° /s 1° to 200° /s	
Preset Speed		Pan: 400° /s Tilt: 300° /s		
Presets		300		
PTZ Mode			ern, 8 Tour (up to 32 pr an, Auto Scan	esets per tour),
Speed Setup		Human-oriented Focal Length, Speed Adaptation		
Power up Action			estore to previous PTZ - failure	and lens status after
Idle Motion		Activat	e Preset, Scan, Tour, Pa and in the specified per	
Protocol		DH-SD Pelco-I	P/D (auto recognition)	

Video			
Compression		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)	
Streaming Capa	ability	Three (3) Streams	
Resolution		1080p (1920 x 1080), 1.3 MP (1280 x 960), 720p (1280 x 720), D1 (704 x 480), CIF (352 x 240)	
Frame Rate	Main Stream	1080p, 1.3 MP, or 720p at 30 fps	
	Sub Stream 1	D1 or CIF at 30 fps	
	Sub Stream 2	720p at 30 fps	
Bit Rate Contro	I	CBR, VBR	
Bit Rate		H.265/H.264: 3 Kbps to 20480 Kbps	
Day/Night		Auto (ICR), Color, B/W	
Backlight Comp	ensation	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 Reductio	n	2D/3D	
Advanced Features		Motion Detection, Region of Interest, Electronic Image Stabilization (EIS), Defog	
Digital Zoom		16x	
Flip		180°	
Privacy Masking	g	Up to 24 areas	
Audio			
Compression		G.711a, G.711Mu, AAC, G.722.1, G.726, G.723, G.729, MPEG2-L2	
Network			
Ethernet		RJ-45 (10/100 Base-TX)	
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 Profile S & G, CGI	
Streaming Met	hod	Unicast / Multicast	
Max. User Acce	SS	19 users (total bandwidth 48 Mbps)	
Edge Storage		FTP, P2P Micro SD Card Slot, up to 256 GB	
Web Viewer		IE 7 and later Firefox version 52 and later Chrome version 42 and later	
Management Software		Smart PSS, DSS Express S	
Smart Phone		IOS, Android	
Certificatior	าร		
CE		EN 55032, EN 55024, EN 50130-4	
Electromagnetic Compatibility (EMC)		47 CFR FCC Part 15 Subpart B ANSI C63.4-2014	
Interface			
Audio		Input: One (1) Channel Output: One (1) Channel	
Alarm		Input: Two (2) Channels Output: One (1) Channel	

 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.

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Electrical

Power Supply	24 VAC, 3 A (± 25%), PoE+ (IEEE802.3at, Class 4)	
Power Consumption	Basic: 13 W Maximum: 24 W with IR on	
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	ø186.0 mm x 309.0 mm (ø 7.32 in. x 12.16 in.)	
Net Weight	3.90 kg (8.60 lb)	
Gross Weight	7.01 kg (15.45 lb)	

Ordering Information			
Туре	Part Number	Description	
2 MP PTZ Camera	59232XANR	2 MP 32x Starlight IR PTZ Network Camera, True WDR, Analytics+	
Accessories, included	AC24V/3A	Power Adapter	
	PFA110	Mount Adapter	
	PFB300S	Wall Mount	
Accessories, optional	PFA120	Water-proof Junction Box	
	PFA140	Power Box	
	PFA150	Pole Mount	
	PFA151	Corner Mount	
	PFB300C	Ceiling Mount	
	PFB303S	Parapet Mount	

Accessories

Included:

Optional:



Wall Mount

PFA140

Power Box

PFA150

Pole Mount



PFA110

Mount Adapter



AC24V/3A Power Supply



PFA120 Junction Box



PFB303S Parapet Mount

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.
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.

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. 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-tracking	Controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene.

 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.

PFB300C Ceiling Mount

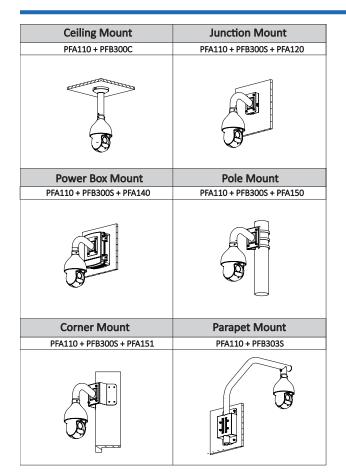


PFA151 Corner Mount

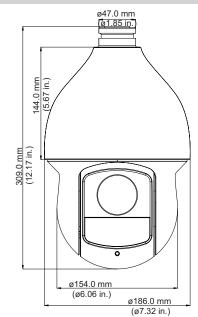




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Dimensions (mm/in.)





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