

4MP Enhanced Starlight Network PTZ Camera (25x)

WizSense Analytics





- Powerful 25x Optical Zoom Lens
- Smart H.265+ and Smart H.264+ Dual Codecs
- Enhanced Starlight Technology for Ultra-low Light Sensitivity
- 4MP (2560 × 1440) at 30 fps
- Maximum IR distance up to 100 m (328.08 ft)
- Predictive Focus Algorithm (PFA) Technology
- Analytics+ Functions Perimeter Protection, Face Detection, and Smart Motion Detection
- Intelligent Video System with Auto-tracking
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP66 Protection
- Five Year Warranty*















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 4MP Enhanced Starlight Network PTZ camera offers a comprehensive solution for capturing long-distance video security in outdoor and low-light applications. It uses Smart H.265+ video compression to improve encoding efficiency without compromising video quality. This PTZ camera has advanced Analytics+ functions such as Perimter Protection and Smart Motion Detection to significantly improve accuracy and reliability compared to standard intelligent features. Infrared illumination and Enhanced Starlight technology make the camera suitable for low-light situations.

Functions

Enhanced 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

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.

Perimter 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.

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.

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.

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.

Environmental

Subjected to rigorous dust and water immersion tests the camera suitable for the most demanding outdoor applications. The camera carries an IP66 rating that ensures protection from total dust ingress and protection from high pressure water jets from any direction.

Arctic Pro (No Heater)

The Dahua ArcticPro Series of extreme-environment cameras combine temperature-tolerant components with a waterproof enclosure to ensure flawless operation in temperatures as low as -40° C (-40° F) without the need for an internal heater. The lack of a heater reduces the camera's power consumption and saves operating costs. 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

Technical Sp	ecification					Noise Reductio	n	2DNR, 3DNR	
Camera					Advanced Feat	ures	Electronic Image Stabilization (EIS), Electronic Defog		
Image Sensor		1/2.8-in STARVIS™ CMOS			Digital Zoom		16x		
Effective Pixels		4MP (2560 × 1440)			Image Rotation		180°		
RAM/ROM		512 MB/128 MB			Privacy Maskin		Up to 24 areas with up to 8 areas in the same view		
Scanning Systen	n					S/N	Ь	≥ 55 dB	
		Progressive							
Electronic Shutt	·	1/1 s to 1/30000 s				Motion Detecti		Supported	
Minimum	Color B/W	0.005 lux at F1.6 0.0005 lux at F1.6				Region of Inter	est (RoI)	Supported (8 Regions)	
Illumination	IR On	0 lux				Audio			
IR Distance		100 m (328.08 ft)				Compression		G.711a, G.711Mu, G.726, MPEG2-Layer2, G722.1, PCM, AAC	
IR On/Off Contro	ol	Zoom Priority, Manual, Smart IR, Off				Network			
Illuminator Num	nber	Six (6)				Ethernet		RJ-45 (10/100 Base-T)	
Lens		(-)				Ethernee		TCP, FTP, RTMP, IPv6, Bonjour, IPv4, DNS, RTCP, PPPoE,	
Focal Length		5 mm to 125 mm				Protocol		NTP, RTP, 802.1x, HTTPS, SNMP, TCP/IP, DDNS, UPnP, NFS, ICMP, UDP, IGMP, IP Filter, HTTP, SSL, DHCP, SMTP, SNMPv1/v2c/v3(MIB-2), Qos, RTSP, ARP	
Maximum Apert		F1.6 to F3.6				Interoperability		CGI, SDK, ONVIF (Profile S, G, T), P2P	
Field of View	Pan Tilt	51.9° to 3.0°				Streaming Met		Unicast/Multicast	
TICIO OT VICW	Rotation	39.7° to 2.2° 63.1° to 3.7°				Maximum User		20 (Total Bandwidth: 64 Mbps)	
Optical Zoom		25x					7100033	MicroSD Card (Max 64 GB), FTP, SFTP, NAS	
Focus Control		Auto, Semi-automatic, Manual				Edge Storage			
Close Focus Dist	tance	0.5 m to 5 m (1.64 ft to 16.40 ft)				Browser	6.	Edge, Chrome (Version 86 or later)	
Iris Control		Auto, Manual, Fixed				Management S	oftware	DSS, DMSS, Smart PSS	
ins control		Detect Observe Recognize Identify			Mobile Client		iOS, Android		
DORI¹ Distance		2500 m	987.5 m	500 m	250 m	Certification			
		(8202.10 ft) (3239.83 ft) (1640.42 ft) (820.21 ft)		CE		EN55032/EN55024/EN50130-4			
Pan/Tilt/Zoo						Electromagnetic Compatability (EMC)		Part 15 Subpart B, ANSI C63.4-2014	
Pan/Tilt Range	Pan Tilt	0° to 360° en -5° to +90°, A				Interface			
Manual	Pan	0.1°/s to 240	·			Audio	Input	One (1) Channel (LINE IN, bare wire)	
Control		0.1°/s to 160					Output	One (1) Channel (LINE OUT, bare wire)	
Speed	Pan	240°/s	/3			Alarm	Input	Two (2) Channel	
Preset Speed	Tilt	160°/s				7.10.111	Output	One (1) Channel	
Presets						Alarm Linkage		Capture, Preset, Tour, Pattern, Recordings On Sd Card, Alarm Digital Input, Send Email, Wake	
PTZ Mode		5 Patterns, 8 Tours (Up to 32 Presets per Tour), 5 Scans			AL		Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict		
Power Up Action		Auto restore to previous PTZ and lens status after power failure			Alarm Event		Detection, Memory Card State Detection, Memory Space Detection, Power Exception Detection		
Idle Motion		Activate Preset/Scan/Tour/Pattern if there is no command in the specified period			Electrical				
Video		command in the specified period			Power Supply		12 VDC/2 A ± 10% (included), PoE+ (802.3at)		
		H.264H. H.26	H.264H, H.264B, Smart H.264+, Smart H.265+, H		5+. H.264.	Power	Basic	9.5 W	
Video Compression		H.265, MJPE	H.265, MJPEG(Sub Stream)			Consumption	Maximum	21.5 W (Illuminator + Fan + PTZ)	
Streaming Capability		Three (3) Stre				Environmen	tal		
Resolution		1080), 1.3MF	4MP (2560 × 1440), 3MP (2304 × 1296), 1080P (1920 × 1080), 1.3MP (1280 × 960), 720P (1280 × 720), D1 (704			Operating Tem		-40 °C to +65 °C (-40 °F to +149 °F)	
	Main Stream	× 480), VGA (640 × 480), CIF(352 × 288) 4MP/3MP/1080p/1.3MP/720p at 1 to 30 fps			Operating Hum		≤ 95%		
Frame Rate	Sub Stream 1		at 1 to 30 fps			Storage Tempe	rature	-40 °C to +65 °C (-40 °F to +149 °F)	
Sub Stream 2		720p/CIF at 1 to 30 fps			Storage Humid	ity	≤ 95%		
Bit Rate Control		CBR/VBR			Protection		IP66		
Bit Rate H.264		2816 kbps to 3056 kbps			Surge Protection		TVS 6000 V		
H.265		1024 kbps to 7936 kbps			Construction				
Day/Night		Auto (ICR), Color, B/W			Product Dimen	sions	168.0 mm × Φ171.1 mm (6.61" × Φ6.74")		
Backlight Compensation		BLC, HLC, True WDR (120 dB)			Net Weight		2.5 kg (5.51 lb)		
White Balance		Auto, Iris Priority, Shutter Priority, Gain Priority, Manual			Gross Weight		3.2 kg (7.05 lb)		
Gain Control		Auto, Manual							

Analytics i anctions	
Perimter 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.
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 video for quick target search and retrieval.

Intelligent Video Syste

Intelligent Video System					
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					
Tripwire	A target crosses a user-defined line.				
Intrusion	A target enters or exits a defined perimeter.				
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.				
Fast Moving	Target exceeds a set speed when exiting a defined area				
Parking Detection	Vehicle remains in a defined area without motion for a set period of time.				
Crowd Gathering	Specified number of people remain inside a defined area for a set time.				
Vehicle/Human Alarm Classification	Detects human or vehicle violations using Tripwire or Intrusion detection methods.				

Ordering Information

Туре	Part Number	Description		
Camera	4A425DBNR	4MP 25x Starlight IR WizSense Network PTZ Camera		
Accessories (Included)	DH-PFM320D-US	12 VDC, 2 A Power Adapter		
	PFA101	Mount Adapter		
	PFB303W	Wall Mount Bracket		
	PFB300C	Ceiling Mount Bracket		
Accessories (Optional)	PFA150	Pole Mount Bracket		
, , ,	PFA151	Corner Mount Bracket		
	PFB303S	Parapet Mount Bracket		
	DHI-TF-P100 Series	MicroSD Memory Card		

Accessories

Included:



DH-PFM320D-US 12 VDC, 2 A Power Adapter

Optional:



PFA101

Mount Adapter





PFB303W Wall Mount Bracket



PFA151 Corner Mount Bracket



PFB300C Ceiling Mount Bracket



PFB303S Parpet Mount Bracket



PFA150

Pole Mount Bracket

DHI-TF-P100 Series MicroSD Memory Card

For all possible accessory combinations for this camera, please scan or click the QR code below to go to our accessory selector.



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Ceiling Mount	Ceiling Mount	Wall Mount	
No Accessory	PFB300C	PFB303W	
Pole Mount (Vertical)	Corner Mount	Parapet Mount	
PFB150 + PFB303W	PFA151 + PFB303W	PFB303S	

Dimensions

mm [in.]



