

4 MP Starlight PTZ Network Camera

45x 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 Starlight PTZ Dome camera features offers Analytics+ functions at the edge − performing complex real-time perimeter protection surveillance. The Dahua Analytics+ algorithms significantly improve accuracy and reliability as compared to standard intelligent features. The camera features a 1/2.8-in. CMOS STARVIS™ imager with a 45x optical zoom lens, and provides an all-in-one solution for capturing long-distance video surveillance for outdoor applications. The camera uses the 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.

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 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.

- 1/2.8-in. 4 MP Progressive-scan CMOS STARVIS™ Sensor
- Powerful 45x Optical Zoom
- Smart H.265+ and Smart H.264+ Dual Codec
- 4 MP at 30 fps Maximum Resolution
- True Wide Dynamic Range
- Starlight Technology for Ultra-low Light Sensitivity
- Analytics+ Functions Perimeter Protection
- Intelligent Video System (IVS) with Auto-tracking
- Maximum IR distance up to 250.0 m (820.21 ft)
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP67 Ingress Protection and IK10 Vandal Resistance Rating
- Five-year Warranty*













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.

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.

ΔrcticPro

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

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



	pecification			
Camera				
Image Sensor		1/2.8-i	n. STARVIS™ CMOS	
Effective Pixels		2560(H	H) x 1440(V), 4 MP	
RAM/ROM		1024 N	ИВ / 128 MB	
Scanning System	m	Progressive		
Electronic Shut	ter Speed	1/1 s t	o 1/30,000 s	
Minimum Illumination		B/W: 0	0.005 lux at F1.6 0.0005 lux at F1.6 t F1.6 with IR on	
IR Distance		Distance up to 250.0 m (820.21 ft)		
IR On/Off Conti	rol	Zoom Priority, Auto, Manual		
IR LEDs		Six (6)		
Lens				
Focal Length		3.95 m	ım to 177.75 mm	
Max. Aperture		F1.6 to	F4.95	
Angle of View		Horizontal: 1.8° to 70.3° Vertical: 1° to 37° Diagonal: 2° to 69.3°		
Optical Zoom		45x		
Focus Control		Auto, Manual		
Close Focus Distance		100 m	m to 3000 mm (3.94 in.	x 118.11 in.)
DORI ¹ Distance				
Detect (8 ppf	Observe (1	.9 ppf)	Recognize (38 ppf)	Identify (76 ppf)
3176 m (10420	ft) 1271 m (43	L70 ft)	635 m (2083 ft)	318 m (1043 ft)
PTZ				
Pan/Tilt Range			' to 360° endless 0° to 90°, Auto Flip 180'	0
Manual Control Speed		Tilt: 0.:	1° to 260° /s 1° to 120° /s	
Preset Speed		Pan: 300° /s Tilt: 200° /s		
Presets		300		
PTZ Mode		5 Pattern, 8 Tour, Auto Pan, Auto Scan		
Speed Setup		Human-oriented Focal Length, Speed Adaptation Auto restore to previous PTZ and lens status after		
Power up Action		power	failure	
Idle Motion		comma	e Preset, Scan, Tour, or and in the specified peri	iod
Protocol		DH-SD	, Pelco-P/D (auto recogr	nition)
Video				
Compression			H.265+, H.265, Smart H (sub stream only)	.264+, H.264,
Streaming Capability		Three	(3) Streams	
Resolution		1080p	2560 x 1440), 3 MP (204 (1920 x 1080), 1280 x 9 1280 x 720), D1 (704 x 4	60,
	Main Stream	4 MP,	3 MP, 1080p, 1.3 MP, or	r 720p at 30 fps
Frame Rate	Sub Stream 1	D1, CIF at 30 fps		
	Sub Stream 2	1080n	or 720p at 30 fps	

	Main Stream	4 MP, 3 MP, 1080p, 1.3 MP, or 720p at 30 fps	
Frame Rate	Sub Stream 1	D1, CIF at 30 fps	
	Sub Stream 2	1080p or 720p at 30 fps	
 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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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, ATW, Indoor, Outdoor, Manual, Sodium Lamp, Natural, Street Lamp
Gain Control	Auto, Manual, Gain Priority, Shutter Priority, Aperture Priority
Noise Reduction	Ultra DNR (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
Audio	
Compression	G.711a, G.711Mu, G.722, G.726, G.729, MPEG2-L2
Network	
Ethernet	RJ-45 (10 Base-T/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 and G, API
Streaming Method	Unicast / Multicast
Max. User Access	20 users
Edge Storage	NAS (Network Attached Storage) Local PC for instant recording Micro SD Card Slot, maximum 256 GB
Web Viewer	IE 10, Firefox
Management Software	Smart PSS, 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	
CE	EN 55032, EN 55024, EN 50130-4
Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014
Interface	
Audio	Input: One (1) Channel Output: One (1) Channel
RS485	One (1)
Alarm	Input: Seven (7) Channels Output: Two (2) Channels
Electrical	
Power Supply	24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)
Power Consumption	13 W, 26 W with IR on

Pro Series | 6CE445XANR

Environmental	
Operating Conditions	-40° C to 70° C (-40° F to +158° F), Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	Ø209.0 mm x 337.4 mm (Ø8.23 in. x 13.28 in.)
Net Weight	5.90 kg (13.01 lb)
Gross Weight	9.60 kg (21.16 lb)
Analytics+ Functions ²	

Allalytics+ Fullctions	
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.
Video Structuralization	 Distinguishes between motor vehicle, non-motor vehicle, and human targets. Optimizes images and takes a snapshot of each target.

Intelligent Video System Functions²

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.	
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.

Ordering Information			
Туре	Part Number	Description	
4 MP PTZ Camera	6CE445XANR	4 MP 45x Starlight IR PTZ Network Camera, WDR, IVS	
Accessories,	PFB305W	Wall Mount	
included	AC24V/3A	Power Adapter	
	PFA111	Mount Adapter	
	PFA120	Junction Box (use with PFB303W or PFB305W)	
	PFA140	Power Box (use with PFB303W or PFB305W)	
Accessories,	PFA150	Pole Mount (use with PFA120, PFA140, PFB303W or PFB305W)	
optional	PFA151	Corner Mount (use with PFA120, PFA140, PFB303W or PFB305W)	
	PFB300C	Ceiling Mount (use with PFA111 mount adapter)	
	PFB303S	Parapet mount (use with PFA111 mount adapter)	
	PFB303W	Wall Mount (use with PFA111 mount adapter)	

Accessories

Included:



PFB305W Wall Mount



AC24V/3A Power Adapter

Optional:



PFA111 Mount Adapter



PFA120 Junction Box



PFA140 Power Box



PFA151 Corner Mount



PFB300C Ceiling Mount



PFA150

Pole Mount

PFB303S Parapet Mount



The Perimeter Protection and the IVS functions cannot be used at the same time, only one Analytics+ or IVS function can be used at a time. In addition, the Smart H.265+ and the Smart H.264+ cannot be used simultaneously with either an Analytics+ or an IVS feature.

Pro Series | 6CE445XANR





