

4 MP Starlight PTZ Network Camera

45x IR PTZ Network Camera with Analytics+



- 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)
- IP67 Ingress Protection and IK10 Vandal Resistance Rating
- Designed for Extreme Temperature Environments
- Five-year Warranty*













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.

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.

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.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) ensuring interoperability between network video products regardless of manufacturer.

Environmental

With a built-in heater and a temperature range of -40° C to $+60^\circ$ C (-40° F to 140° F), the camera is designed for extreme temperature environments. 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.



Technical Sp	ecification			
Camera				
Image Sensor		1/2.8-in. STARVIS™ CMOS		
Effective Pixels		2560(H) x 1440(V), 4 MP		
RAM/ROM		1024 N	ИВ / 128 MB	
Scanning Syster	n	Progre	ssive	
Electronic Shutter Speed		1/1 s to 1/30,000 s		
Minimum Illumination		Color: 0.005 lux at F1.6 B/W: 0.0005 lux at F1.6 0 lux at F1.6 with IR on		
IR Distance		Distan	ce up to 250.0 m (820.2	1 ft)
IR On/Off Contr	ol	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.)
DORI¹ Distar	nce			
Detect (8 ppf)	Observe (1	.9 ppf)	Recognize (38 ppf)	Identify (76 ppf)
3176 m (10420 f	t) 1271 m (41	L70 ft)	635 m (2083 ft)	318 m (1043 ft)
PTZ				
Pan/Tilt Range		Pan: 0° to 360° endless Tilt: –20° to 90°, Auto Flip 180°		
Manual Control	Speed	Pan: 0.1° to 260° /s Tilt: 0.1° 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	า	power	failure	
Idle Motion			e Preset, Scan, Tour, or and in the specified peri	
Protocol		DH-SD	, Pelco-P/D (auto recogr	nition)
Video				
Compression		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)		
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	720p at 30 fps
Frame Rate	Sub Stream 1	D1, CIF at 30 fps		
	Sub Stream 2	1080p or 720p at 30 fps		

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 Bigital Zoom 16x Flip 180° Privacy Masking Up to 24 areas Audio Compression G.711a, G.7111Mu, AAC, G.722, G.726, G.729, MPEG2-L2 Network Ethernet R.4-5 (10 Base-T/100 Base-TX) IPV4/IPV6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPPP, U		
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 Auto, Manual, Gain Priority, Shutter Priority, Aperture Priority Noise Reduction Ultra DNR (2D/3D) Advanced Features Electronic Image Stabilization (EIS), Defog Digital Zoom 16x Flip 180° Privacy Masking Up to 24 areas Audio Compression G.7.11a, G.711Mu, AAC, G.722, G.726, G.729, MPEG2-L2 Network Ethernet RI-45 (10 Base-T/100 Base-TX) Interoperability ONVIF Profile S and G, API Streaming Method Unicast / Multicast Max. User Access 20 uses Edge 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 Certifications CE EN \$5032 EN \$5004 EN \$50032 EN \$5004 EN \$50130-4 Electromagnetic Compatibility (CC) and Colored Bourse Compatibility (CC) and Colored Bourse Colored	Bit Rate Control	CBR, VBR
Backlight Compensation BitC, HLC, True WDR (120 dB) White Balance Auto, ATW, Indoor, Outdoor, Manual, Sodium Lamp Natural, Street Lamp 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 Audio Compression G.711a, G.711Mu, AAC, G.722, G.726, G.729, MPEG2-L2 Network Ethernet RJ-45 (10 Base-T/100 Base-TX) 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 Certifications CE EN 55032 EN 55032 EN 55034 EN 55032 EN 55032 EN 55034 EN 55032 EN 55034 EN 55030-4 Electromagnetic Compatibility FCC Part 15 Subpart B ANSI C63.4-2014 Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channel Output: One (1) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Bit Rate	H.265/H.264: 3 Kbps to 20480 Kbps
White Balance Auto, ATW, Indoor, Outdoor, Manual, Sodium Lamp Natural, Street Lamp 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, AAC, G.722, G.726, G.729, MPEG2-L2 Network Ethernet RJ-45 (10 Base-T/100 Base-TX) 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 Certifications CE EN 55024 EN 55024 EN 55024 EN 55030 EN 55024 EN 55030 EN 55024 EN 55030 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channels Output: Seven (7) Channels Output: Seven (7) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Day/Night	Auto (ICR), Color, B/W
White Balance Auto, Manual, Street Lamp 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, AAC, G.722, G.726, G.729, MPEG2-L2 Network Ethernet R45 (10 Base-T/100 Base-TX) IPV4/IPV6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPPP, UNS, PPPG, DNS, PPPG, DNS, 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 Vas (Network Attached Storage) Local PC for instant recording Micro SD Card Slot, maximum 256 GB Web Viewer IE 10, Firefox Management Software Mobile Operating System OS, Android Certifications CE EN 55032 EN 55024 EN 550130-4 Electromagnetic Compatibility FCC Part 15 Subpart B ANSI (C63.4-2014 Interface Audio Uniput: One (1) Channel Output: One (1) Channel Output: One (1) Channel Output: One (1) Channel Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Backlight Compensation	BLC, HLC, True WDR (120 dB)
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, AAC, G.722, G.726, G.729, MPEG2-L2 Network Ethernet RJ-45 (10 Base-T/100 Base-TX) Protocol PryA/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPPP, 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 MAS (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 Certifications CE EN 55032 EN 55024 EN 50130-4 Electromagnetic Compatibility ECC Part 15 Subpart B ANSI C63.4-2014 Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	White Balance	
Advanced Features Motion Detection, Region of Interest, Electronic Image Stabilization (EIS), Defog	Gain Control	
Electronic Image Stabilization (EIS), Defog Digital Zoom 16x Flip 180° Privacy Masking Up to 24 areas Audio Compression G.711a, G.711Mu, AAC, G.722, G.726, G.729, MPEG2-L2 Network Ethernet R45 (10 Base-T/100 Base-TX) IPv4/IPv6, HTTP, HTTPs, SSL, TCP/IP, UDP, UPPP, CMP, 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 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 Certifications CE EN 55032 EN 55032 EN 55034 EN 50130-4 Electromagnetic Compatibility (EMC) 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)	Noise Reduction	Ultra DNR (2D/3D)
Flip 180° Privacy Masking Up to 24 areas Audio Compression G.711a, G.711Mu, AAC, G.722, G.726, G.729, MPEG2-L2 Network Ethernet RJ-45 (10 Base-T/100 Base-TX) Protocol IPV4/IPV6, HITTP, HITPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SMMP, STSP, 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 Certifications CE EN 55032 EN 55024 EN 50130-4 Electromagnetic Compatibility ECC 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)	Advanced Features	
Audio Compression G.711a, G.711Mu, AAC, G.722, G.726, G.729, MPEG2-L2 Network Ethernet RJ-45 (10 Base-T/100 Base-TX) IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SMMP, 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 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 Certifications CE EN 55032 EN 55034 EN 55034 EN 550304 EN 550304 EN 550304 EN 550304 EN 550304 EN 550304 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Digital Zoom	16x
Audio Compression G.711a, G.711Mu, AAC, G.722, G.726, G.729, MPEG2-L2 Network Ethernet RJ-45 (10 Base-T/100 Base-TX) IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, 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 Certifications CE EN 55032 EN 55034 EN 55034 EN 55030-4 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channel SA85 One (1) Alarm Input: Seven (7) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Flip	180°
Compression G.711a, G.711Mu, AAC, G.722, G.726, G.729, MPEG2-L2 Network Ethernet RJ-45 (10 Base-T/100 Base-TX) IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SMMP, 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 Certifications CE EN 55032 EN 55024 EN 50130-4 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Privacy Masking	Up to 24 areas
Network Ethernet RJ-45 (10 Base-T/100 Base-TX) Protocol Protocol RJ-4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPNP, ICMP, IGMP, SMMP, 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 Certifications CE EN 55032 EN 55024 EN 50130-4 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channel Output: One (1) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Audio	
Ethernet RJ-45 (10 Base-T/100 Base-TX) Protocol Pv4/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 Certifications CE EN 55032 EN 55024 EN 550130-4 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Compression	
Protocol IPv4/IPv6, HTTP, HTTPs, SSL, TCP/IP, UDP, UPPP, ICMP, IGMP, IGMP, SMMP, 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 Certifications CE EN 55032 EN 55024 EN 55030-4 EN 50130-4 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Network	
Protocol 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 Mas (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 Certifications CE EN 55032 EN 55024 EN 50130-4 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Ethernet	RJ-45 (10 Base-T/100 Base-TX)
Streaming Method Unicast / Multicast Max. User Access 20 users 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 Certifications CE EN 55032 EN 55024 EN 50130-4 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channel FS485 One (1) Alarm Input: Seven (7) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Protocol	ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour,
Max. User Access 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 Certifications CE EN 55032 EN 55024 EN 50130-4 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channel FCS PSS ONE (1) Alarm Input: Seven (7) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Interoperability	ONVIF Profile S and G, API
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 Certifications CE EN 55032 EN 55024 EN 55030-4 EN 50130-4 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Streaming Method	Unicast / Multicast
Edge 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 Certifications EN 55032 EN 55024 EN 50130-4 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channel Output: One (1) Channel Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Max. User Access	20 users
Management Software Smart PSS, DSS, DMSS Mobile Operating System IOS, Android Certifications EN 55032 EN 55024 EN 50130-4 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channel Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Edge Storage	Local PC for instant recording
Mobile Operating System Certifications EN 55032 EN 55024 EN 550130-4 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channel Output: One (1) Channel RS485 One (1) Input: Seven (7) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Web Viewer	IE 10, Firefox
Certifications CE	Management Software	Smart PSS, DSS, DMSS
CE EN 55032 EN 55024 EN 50130-4 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Alarm Input: Seven (7) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Mobile Operating System	IOS, Android
CE EN 55024 EN 50130-4 Electromagnetic Compatibility (EMC) Interface Audio Input: One (1) Channel Output: 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)	Certifications	
(EMC) ANSI C63.4-2014 Interface Audio Input: One (1) Channel Output: One (1) Channel Output: One (1) Channel RS485 One (1) Input: Seven (7) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	CE	EN 55024
Audio Input: One (1) Channel Output: One (1) Channel RS485 One (1) Input: Seven (7) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	. ,	
Audio Output: One (1) Channel RS485 One (1) Input: Seven (7) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Interface	
Alarm Input: Seven (7) Channels Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Audio	
Output: Two (2) Channels Electrical Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	RS485	One (1)
Power Supply 24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)	Alarm	
11.1	Electrical	
Power Consumption 13 W, 26 W with IR on	Power Supply	24 VAC, 3 A (± 10%) or PoE+ (IEEE 802.3at)
	Power Consumption	13 W, 26 W with IR on

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.

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	

	,
Analytics+ Functions ²	
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.

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	
Accessories, optional	PFA111	Mount Adapter (for use with PFB300C ceiling mount and with PFB303S parapet mount)	
	PFA140	Power Box (for use with PFB305W wall mount)	
	PFA120	Junction Box (for use with PFB305W wall mount)	
	PFA150	Pole Mount (for use with PFB305W wall mount)	
	PFA151	Corner Mount (for use with PFB305W)	
	PFB300C	Ceiling Mount (use with PFA111 mount adapter)	
	PFB303S	Parapet mount (use with PFA111 mount adapter)	

Intelligent Video System Functions²

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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.

Accessories

Included:



PFB305W Wall Mount



AC24V/3A Power Adapter

Optional:



PFA111 Mount Adapter



PFA120 Junction Box



PFA140 Power Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB300C Ceiling 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.

Ceiling Mount	Junction Mount
PFA111 + PFB300C	PFB305W
Power Box Mount	Pole Mount
PFB305W + PFA140	PFB305W + PFA150
Corner Mount	Parapet Mount
PFB305W + PFA151	PFA111+ PFB303S



