

# 4MP Enhanced Starlight Network PTZ Camera (25x)

WizSense Analytics and ArcticPro







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 security for small to medium size businesses at a sensible price.

### **System Overview**

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video security for outdoor applications. Together with infrared illumination and Enhanced Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day.

### **Functions**

# **Enhanced 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 applications 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.

#### 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 fewer pixels to detect an object to deliver improved accuracy and decreased false alarms due to lights, weather, trees, or animals.

#### Face Detection

Face Detection technology captures a human face in a digital image and then selects the best image and outputs a snapshot of the face.

# 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.

- 1/2.8-in. STARVIS™ CMOS Sensor
- Powerful 25x Optical Zoom Lens
- Enhanced Starlight Technology for Low-light Applications
- Al Coding and Smart H.265+ and Smart H.264+ Smart Dual Codec
- Enhanced Starlight Technology for Low-light Applications
- 4MP (2560 x 1440) at 30 fps
- Maximum IR LED Distance of 100 m (328.08 ft)
- Analytics+ Functions: Perimeter Protection, Face Detection, Smart Motion Detection+
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP66 Ingress Protection, TVS 6000 V Surge Protection
- Five-year Warranty\*











#### Smart H.265+ and Smart H.264+

Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.

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 (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.

#### Environmental

Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Supporting dual voltage input (12 VDC or 24 VAC) and a  $\pm 25\%$  input voltage tolerance, this camera suits even the most unstable power supply conditions. Its TVS 6000 V lightning rating protects the camera and its structure from the effects of lightning on the camera and its structure.



Technical Sp	ecification				
Camera					
Image Sensor		1/2.8-in. CM	OS		
Effective Pixels		2560 (H) × 14	140 (V)		
RAM/ROM		1 GB/4 GB			
,	m	Progressive			
Scanning System Electronic Shutter Speed		1/1 s to 1/30,000 s			
Liceti offic Situt	Color	0.005 lux at f			
Minimum	B/W		0.0005 lux at F1.6		
Illumination IR Light On		0 lux at F1.6			
IR Distance		100 m (328.08 ft)			
IR On/Off Control		Zoom Priority, Manual, Smart IR, Off			
Illuminator Number		Four (4) IR LEDs			
Lens		1041 (1) 111 22			
Focal Length		E mm to 12E mm			
	atura.	5 mm to 125 mm			
Maximum Aper		F1.6 to F3.6 53.1° to 3.4°			
Angle of View	Horizontal Vertical	30.4° to 1.9°			
Angle of View	Diagonal	59.3° to 3.9°			
Optical Zoom		25x			
Focus Control			emi-automatic	Manual	
			ciiii aatoiiiatic	, ivianuai	
Iris Control Close Focus Distance		Auto			
Close Focus Dis	tance		3.28 ft to 29.53		1-1
DORI¹ Distance		Detect 2161.4 m	Observe 864.6 m	Recognize 432.3 m	Identify 216.1 m
		(7091.21 ft)	(2836.61 ft)	(1418.30 ft)	(708.99 ft)
PTZ					
Pan/Tilt	Pan	0° to 360° en	dless		
Range	Tilt	−15° to +90°,	auto flip 180°		
Manual Control	Pan	0.1° to 200°/	S		
Speed	Tilt	0.1° to 120°/	S		
Drocat Spood	Pan	240°/s			
Preset Speed	Tilt	200°/s			
Presets		300			
PTZ Mode		5 Patterns, 8 Tours (Up to 32 Presets per Tour), 5 Scans			
Danier II. Anti-	_	Auto restore to previous PTZ and lens status after			
Power Up Actio	)[]	power failure			
Idle Motion		Activate Preset/Scan/Tour/Pattern if there is no command in the specified period			
Video		commanu III	те эреспіси р	Cilou	
		Al Coding H	264H H 264R	Smart H 265+	H.264
Video Compres	sion	Al Coding, H.264H, H.264B, Smart H.265+, H.264, H.265, MJPEG(Sub Stream), Smart H.264+			
Streaming Capa	ability	Three (3) Streams			
Resolution		4MP (2560 × 1440), 3MP (2048 × 1536), 2304 × 1296, 1080p (1920 × 1080), 720p (1280 × 720), D1 (704 ×			
	Main Ctroom		30), CIF (352 × 3		
Frame Rate	Main Stream Sub Stream 1	4MP/3MP/1080p/1.3MP/720p at 1 to 30 fps D1/CIF at 1 to 30 fps			μs
Traine Nate	Sub Stream 2			0 fps	
Bit Rate Contro		1080p/1.3M/720p at 1 to 30 fps CBR/VBR			
	H.264	96 to 14,848	Kbps		
Bit Rate	H.265	38 to 8,960 k			
Day/Night		Auto (ICR), Color, B/W			
Backlight Compensation		BLC, WDR, HLC			
White Balance		Auto, Indoor, Outdoor, Tracking, Manual, Sodium Lamp, Natural Light, Street Lamp			
Gain Control		Auto, Manual			
Noise Reduction		2D, 3D			
		Region of Interest (RoI), Electronic Image Stabilization			
Advanced Features		(EIS), Defog	250 (NOI), EIC	IIIIuBC :	

Image Rotation	Digital Zoom	16x	
S/N Ratio  Audio  Compression	Image Rotation	180°	
Audio  Compression   PCM, G.711a, G.711Mu, G.726, MPEG2-Layer2, G.722.1, G.729, G.723, AAC  Network  Ethernet   One (1) RJ-45 Port (10/100 Base-T)  FTP, RTR, PG, PG, Jour, JPM, DNS, RTCP, PPDE, NTP, RTP, PG, ED, Juny, HTPS, SNNAP, TCP/P, DDNS, UPPP, NFS, ICMP, IDP, IGMP, HTTP, SSIL, DHCP, SMTP, CDS, RTSP, ARP  Interoperability   RTMP, IGR, GO, DIV, HTPS, SNNAP, TCP/P, DDNS, UPPP, NFS, ICMP, IDP, IGMP, HTTP, SSIL, DHCP, SMTP, CDS, RTSP, ARP  Interoperability   Streaming Method   Unicast/Multicast   Maximum User Access   20 Users (Total Bandwidth 64 Mbps)   Edge Storage   Micro SD Slot (Max. S12 GB), FTP/STP, NAS   Safari (IOS 10 or Later), Microsoft Edge, Google Chrome 41 or Later, Firefox 50 or Later   Management Software   DSS, DMSS   Mobile Client   IOS, Android   Certifications  CE   Solada, ENSSOB, CE-LVD: EN 62368-1   Interface   Audio   Input   One (1) Channel (LINE IN, bare wire)   Interface   Audio   Input   One (1) Channel (LINE IN, bare wire)   Input   One (1) Channel (LINE IN, bare wire)   Input   One (1) Channel (LINE IN, bare wire)   Alarm   Input   One (1) Channel (LINE IN, bare wire)   Alarm   Capture, Recording, Send Email, Preset, Tour, Pattern, Alarm Digital Input   Mation/Tampering Detection, Audio Detection, Network Disconnection Detection, Memory Card State Detection, Memory Space Detection   Electrical   Power Supply   12 VDC/3A±10%, PoE (802.3at)   Power Supply   12 VDC/3A±10%, PoE (802.3at)   Power Supply   20 W (Illuminator + Alarm + PTZ)   Environmental   Operating Temperature   -40 °C to +70 °C (-40 °F to +158 °F)   Operating Temperature   -40 °C to +70 °C (-40 °F to +158 °F)   Storage Protection   VS 6000 V   Construction   Fooduct Dimensions   270.4 mm × Φ160 mm (10.65" × Φ6.30")   Net Weight   2.4 kg (5.29 lb)   Gross Weight   3.9 kg (8.60 lb)   Analytics+ Functions   Face Detection   Differentiates between and classifies human and weight of the stream of the side and side to leaves, lights, animals,	Privacy Masking	Up to 24 areas (8 areas allowed per view)	
Compression	S/N Ratio		
Network	Audio		
Ethernet  One (1) RJ-45 Port (10/100 Base-T)  FTP, RTMP, IPV6, Bonjour, IPV4, DNS, RTCP, PPP0E, NTP, RTP, 8D2.1s, HTTPS, SNMP, TCP/IP, DDNS, UPnPn, NFS, KDNP, LDP, IGMP, HTTP, SSL, DHCP, SMTP, Qos, RTSP, ARP  Interoperability  RTMP, CGI, SDK, ONVIF (Profile S, G, T), P2P  Streaming Method  Unicast/Multicast  Maximum User Access  20 Users (Total Bandwidth 64 Mbps)  Edge Storage  Micro SD Slot (Max. 512 GB), FTP/SFTP, NAS  Browser  Safari (IOS 10 or Later), Microsoft Edge, Google Chrome 41 or Later, Firefox 50 or Later  Management Software  DSS, DMSS  Mobile Client  CE  CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035; CE-LVD: EN 62368-1  FCC  47 CFR FCC Part1S, Subpart B, NSI C63.4  UL  UL62368-1  Interface  Audio  Input  One (1) channel (LINE IN), bare wire)  Output  One (1) channel (LINE OUT, bare wire)  Input  Two (2) channel  Output  One (1) Channel  Alarm Digital input  Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, Memory Space Detection  Electrical  Power Supply  12 VDC/3A±10%, PoE (802.3at)  Power Supply  12 VDC/3A±10%, PoE (802.3at)  Power Operating Humidity  495%  Storage Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Operating Humidity  595%  Storage Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Storage Humidity  595%  Storage Protection  VS 6000 V  Construction  Product Dimensions  270.4 mm × Ф160 mm (10.65° × Ф6.30°)  Net Weight  2.4 kg (5.29 lb)  Gross Weight  3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection  - Differentiates between and classifies human and welhcic objects.  • Electrical between and classifies human and welhcic objects.  • Electrical between and classifies human and welhcic objects.  • Electrical between and classifies human and welhcic objects.	Compression		
FTP, RTMP, IPV6, Bonjour, IPV4, DNS, RTCP, PPP0E, NTP, RTP, 802.1x, HTTPS, SNMP, TCP/IP, DDNS, UPP0, NTP, RTP, 802.1x, HTTPS, SNMP, TCP/IP, DDNS, UPP0, NTS, CMP, UDP, IGMP, HTTP, SSL, DHCP, SMTP, Qos, RTSP, ARP  Interoperability  RTMP, CGI, SDK, ONVIF (Profile S, G, T), P2P  Streaming Method  Maximum User Access  Edge Storage  Micro SD Slot (Max. 512 GB), FTP/SFTP, NAS  Safari (IOS 10 or Later), Microsoft Edge, Google Chrome 41 or Later, Firefox 50 or Later  Management Software  Mobile Client  Cettifications  CE  CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035; CE-LVD: EN 623G8-1  FCC  47 CFR FCC Part15, Subpart B, NSI C63.4  UL  UL62368-1  Input  One (1) channel (LINE IN, bare wire)  Output  One (1) channel (LINE OUT, bare wire)  Two (2) channel  Alarm  Input  Alarm Digital Input  Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict Detection, Memory Card State Detection, Memory Space Detection  Electrical  Power Supply  12 VDC/3A±10%, PoE (802.3at)  Power Basic  Onsumption  Maximum  20 W (Illuminator + Alarm + PTZ)  Environmental  Operating Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Operating Humidity  595%  Storage Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Storage Humidity  595%  Storage Protection  TV5 6000 V  Construction  Product Dimensions  270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight  2.4 kg (5.29 lb)  Gross Weight  3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection  - Differentiates between and classifies human and evelicic objects.  - Eilters fishes alarms due to leaves, lights, animals,  - Eilters fishes alarms due to leaves, lights, animals,	Network		
Protocol    NTP, RTP, R02.1x, HTTPS, SNMP, TCP/Pr, DDNS, UPPP, NFS, ICMP, UDP, IGMP, HTTP, SSL, DHCP, SMTP, Qos, RTSP, ARP   Interoperability	Ethernet	One (1) RJ-45 Port (10/100 Base-T)	
Streaming Method  Maximum User Access  20 Users (Total Bandwidth 64 Mbps)  Edge Storage  Micro SD Slot (Max. 512 GB), FTP/SFTP, NAS  Browser  Management Software  DSS, DMSS  Mobile Client  Certifications  CE  CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 5130-4; EN 55035; CE-LVD: EN 62368-1  FCC  47 CFR FCC Part15, Subpart B, NSI C63.4  UL  UL62368-1  Interface  Audio  Input  One (1) channel (LINE IN, bare wire)  Output  One (1) channel  Alarm Unity De (1) channel  Alarm Linkage  Alarm Linkage  Alarm Linkage  Alarm Event  Electrical  Power Supply  Power Basic 9 W  Consumption Maximum 20 W (Illuminator + Alarm + PTZ)  Environmental  Operating Temperature  Operating Humidity  595%  Storage Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Storage Humidity  595%  Storage Protection  TVS 6000 V  Construction  Product Dimensions  Anallytics+ Functions  Face Detection  Face Detection  Face Detection  Poset Singla Pater and Classifies human and vehicle objects.  Filters false alarms due to leaves, lights, animals,  Filters false alarms due to leaves, lights, animals,  Filters false alarms due to leaves, lights, animals,	Protocol	NTP, RTP, 802.1x, HTTPS, SNMP, TCP/IP, DDNS, UPnP, NFS, ICMP, UDP, IGMP, HTTP, SSL, DHCP, SMTP, Qos,	
Maximum User Access 20 Users (Total Bandwidth 64 Mbps)  Edge Storage	Interoperability	RTMP, CGI, SDK, ONVIF (Profile S, G, T), P2P	
Edge Storage	Streaming Method	Unicast/Multicast	
Browser  Safari (iOS 10 or Later), Microsoft Edge, Google Chrome 41 or Later, Firefox 50 or Later  Management Software  DSS, DMSS  Mobile Client  Certifications  CE  CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035; CE-LVD: EN 62368-1  FCC  47 CFR FCC Part15, Subpart B, NSI C63.4  UL  UL62368-1  Input  One (1) channel (LINE IN, bare wire)  Output  One (1) channel (LINE OUT, bare wire)  Input  Motion/Tampering Detection, JP Conflict  Detection, Memory Card State Detection, Memory Space Detection  Electrical  Power Supply  12 VDC/3A±10%, PoE (802.3at)  Power Supply  12 VDC/3A±10%, PoE (802.3at)  Power Supply  Power Supply  12 VDC/3A±10%, PoE (802.3at)  Power Supply  12 VDC/3A±10%, PoE (802.3at)  Power Operating Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Coperating Humidity  ≤ 95%  Storage Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Storage Humidity  ≤ 95%  Storage Humidity  ≤ 95%  Storage Protection  IP66  Surge Protection  TVS 6000 V  Construction  Product Dimensions  270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight  2.4 kg (5.29 lb)  Gross Weight  Analytics+ Functions  Face Detection  Poetection  Poetects and captures a snapshot of a human face in a defined area within a scene.  • Differentiates between and classifies human and vehicle objects.  • Filters false alarms due to leaves, lights, animals,	Maximum User Access	20 Users (Total Bandwidth 64 Mbps)	
Management Software  DSS, DMSS  Mobile Client  OS, Android  Certifications  CE CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035; CE-LVD: EN 62368-1  FCC 47 CFR FCC Part15, Subpart B, NSI C63.4  UL UL62368-1  Interface  Audio Output One (1) channel (LINE IN, bare wire) Output One (1) channel (LINE OUT, bare wire) Output One (1) channel Alarm Linkage Capture, Recording, Send Email, Preset, Tour, Pattern, Alarm Digital Input  Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict Detection, Memory Card State Detection, Memory Space Detection  Electrical  Power Supply 12 VDC/3A±10%, PoE (802.3at)  Power Consumption Maximum 20 W (Illuminator + Alarm + PTZ)  Environmental  Operating Temperature -40 °C to +70 °C (-40 °F to +158 °F)  Operating Humidity ≤ 95%  Storage Temperature -40 °C to +70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Temperature -70 °C (-40 °F to +158 °F)  Storage Temperature -	Edge Storage	Micro SD Slot (Max. 512 GB), FTP/SFTP, NAS	
Mobile Client Certifications  CE  CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035; CE-LVD: EN 62368-1  FCC  47 CFR FCC Part15, Subpart B, NSI C63.4  UL  UL62368-1  Input One (1) channel (LINE IN, bare wire) Output One (1) channel (LINE OUT, bare wire) Input Output One (1) Channel Output One (1) Channel Alarm Linkage  Alarm Linkage  Capture, Recording, Send Email, Preset, Tour, Pattern, Alarm Digital Input Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict Detection, Memory Card State Detection, Memory Space Detection Electrical  Power Supply  Power Consumption Maximum 20 W (Illuminator + Alarm + PTZ)  Environmental Operating Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Storage Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Storage Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Storage Protection  IP66  Surge Protection  TVS 6000 V  Construction  Product Dimensions  270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight  3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection  • Detects and captures a snapshot of a human face in a defined area within a scene.  • Differentiates between and classifies human and vehicle objects.  • Filters false alarms due to leaves, lights, animals,	Browser		
CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035; CE-LVD: EN 62368-1  FCC 47 CFR FCC Part15, Subpart B, NSI C63.4  UL UL62368-1  Interface  Audio Output One (1) channel (LINE IN, bare wire)  Output One (1) channel (LINE OUT, bare wire)  Input Two (2) Channel  Output One (1) Channel  Alarm Linkage Capture, Recording, Send Email, Preset, Tour, Pattern, Alarm Digital Input  Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict Detection, Memory Card State Detection, Memory Space Detection  Electrical  Power Supply 12 VDC/3A±10%, PoE (802.3at)  Power Basic 9 W  Consumption Maximum 20 W (Illuminator + Alarm + PTZ)  Environmental  Operating Temperature -40 °C to +70 °C (-40 °F to +158 °F)  Storage Temperature -40 °C to +70 °C (-40 °F to +158 °F)  Storage Temperature -40 °C to +70 °C (-40 °F to +158 °F)  Storage Protection TVS 6000 V  Construction  Product Dimensions 270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight 2.4 kg (5.29 lb)  Gross Weight 3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection Petertion Filters also alarms due to leaves, lights, animals, Filters false alarms due to leaves, lights, animals,	Management Software	DSS, DMSS	
CE	Mobile Client	iOS, Android	
FCC 47 CFR FCC Part15, Subpart B, NSI C63.4  UL UL62368-1  Interface  Audio Output One (1) channel (LINE IN, bare wire) Output One (1) channel (LINE OUT, bare wire)  Alarm Input One (1) channel Output One (1) channel Capture, Recording, Send Email, Preset, Tour, Pattern, Alarm Digital Input  Alarm Event Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict Detection, Memory Card State Detection, Memory Space Detection  Electrical  Power Supply 12 VDC/3A±10%, PoE (802.3at)  Power Basic 9 W Consumption Maximum 20 W (Illuminator + Alarm + PTZ)  Environmental  Operating Temperature -40 °C to +70 °C (-40 °F to +158 °F)  Operating Humidity ≤ 95%  Storage Temperature -40 °C to +70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Ingress Protection IP66  Surge Protection TVS 6000 V  Construction  Product Dimensions 270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight 2.4 kg (5.29 lb)  Gross Weight 3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection Petertion Filter and Captures a snapshot of a human face in a defined area within a scene.  • Differentiates between and classifies human and vehicle objects.  • Filters false alarms due to leaves, lights, animals,	Certifications		
UL       UL62368-1         Interface       Input       One (1) channel (LINE IN, bare wire)         Output       One (1) channel (LINE OUT,bare wire)         Alarm       Input       Two (2) Channel         Output       One (1) Channel         Alarm Linkage       Capture, Recording, Send Email, Preset, Tour, Pattern, Alarm Digital Input         Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict Detection, Memory Card State Detection, Memory Space Detection         Electrical       Power Supply       12 VDC/3A±10%, PoE (802.3at)         Power Consumption       Basic       9 W         Consumption       Maximum       20 W (Illuminator + Alarm + PTZ)         Environmental       Operating Temperature       −40 °C to +70 °C (−40 °F to +158 °F)         Operating Humidity       ≤ 95%         Storage Temperature       −40 °C to +70 °C (−40 °F to +158 °F)         Storage Humidity       ≤ 95%         Ingress Protection       TVS 6000 V         Construction       Product Dimensions       270.4 mm × Φ160 mm (10.65" × Φ6.30")         Net Weight       2.4 kg (5.29 lb)         Gross Weight       3.9 kg (8.60 lb)         Analytics+ Functions         Face Detection       • Detects and captures a snapshot of a human face in a defin	CE		
Interface  Audio  Input Output One (1) channel (LINE IN, bare wire) Output One (1) channel (LINE OUT,bare wire)  Input Output One (1) Channel Output One (1) Channel  Capture, Recording, Send Email, Preset, Tour, Pattern, Alarm Digital Input Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict Detection, Memory Card State Detection, Memory Space Detection  Electrical  Power Supply 12 VDC/3A±10%, PoE (802.3at)  Power Basic 9 W Consumption Maximum 20 W (Illuminator + Alarm + PTZ)  Environmental Operating Temperature -40 °C to +70 °C (-40 °F to +158 °F)  Operating Humidity ≤ 95%  Storage Temperature -40 °C to +70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Ingress Protection IP66  Surge Protection TVS 6000 V  Construction  Product Dimensions 270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight 2.4 kg (5.29 lb)  Gross Weight 3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection  • Detects and captures a snapshot of a human face in a defined area within a scene. • Differentiates between and classifies human and vehicle objects. • Filters false alarms due to leaves, lights, animals,	FCC	47 CFR FCC Part15, Subpart B, NSI C63.4	
Audio       Input       One (1) channel (LINE IN, bare wire)         Alarm       Input       Two (2) Channel         Output       One (1) Channel         Alarm Linkage       Capture, Recording, Send Email, Preset, Tour, Pattern, Alarm Digital Input         Motion/Tampering Detection, Audio Detection, IP Conflict Detection, Memory Space Detection, IP Conflict Detection, Memory Card State Detection, Memory Space Detection         Electrical       Power Supply       12 VDC/3A±10%, PoE (802.3at)         Power Consumption       Basic       9 W         Maximum       20 W (Illuminator + Alarm + PTZ)         Environmental       Operating Temperature       -40 °C to +70 °C (-40 °F to +158 °F)         Operating Humidity       ≤ 95%         Storage Temperature       -40 °C to +70 °C (-40 °F to +158 °F)         Storage Humidity       ≤ 95%         Ingress Protection       IP66         Surge Protection       TVS 6000 V         Construction       Product Dimensions       270.4 mm × Φ160 mm (10.65" × Φ6.30")         Net Weight       2.4 kg (5.29 lb)         Gross Weight       3.9 kg (8.60 lb)         Analytics+ Functions         Face Detection       • Detects and captures a snapshot of a human face in a defined area within a scene.         • Differentiates between and cla	UL	UL62368-1	
Audio       Output       One (1) channel (LINE OUT,bare wire)         Alarm       Input Two (2) Channel         Output       One (1) Channel         Alarm Linkage       Capture, Recording, Send Email, Preset, Tour, Pattern, Alarm Digital Input         Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict Detection, Memory Space Detection         Electrical         Power Supply       12 VDC/3A±10%, PoE (802.3at)         Power Consumption       9 W         Maximum       20 W (Illuminator + Alarm + PTZ)         Environmental       Operating Temperature         Operating Humidity       ≤ 95%         Storage Temperature       −40 °C to +70 °C (−40 °F to +158 °F)         Storage Humidity       ≤ 95%         Ingress Protection       IP66         Surge Protection       TVS 6000 V         Construction       Product Dimensions       270.4 mm × Φ160 mm (10.65" × Φ6.30")         Net Weight       2.4 kg (5.29 lb)         Gross Weight       3.9 kg (8.60 lb)         Analytics+ Functions         Face Detection       • Detects and captures a snapshot of a human face in a defined area within a scene.         • Differentiates between and classifies human and vehicle objects.       • Filters false alarms due to leaves, lights, animals,	Interface		
Output       One (1) channel (LINE OUT,bare wire)         Alarm       Input       Two (2) Channel         One (1) Channel       One (1) Channel         Alarm Linkage       Capture, Recording, Send Email, Preset, Tour, Pattern, Alarm Digital Input         Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict Detection, Memory Card State Detection, Memory Space Detection         Electrical         Power Supply       12 VDC/3A±10%, PoE (802.3at)         Power Consumption       9 W         Maximum       20 W (Illuminator + Alarm + PTZ)         Environmental       Operating Temperature         Operating Temperature       −40 °C to +70 °C (−40 °F to +158 °F)         Storage Temperature       −40 °C to +70 °C (−40 °F to +158 °F)         Storage Humidity       ≤ 95%         Ingress Protection       IP66         Surge Protection       TVS 6000 V         Construction         Product Dimensions       270.4 mm × Φ160 mm (10.65" × Φ6.30")         Net Weight       2.4 kg (5.29 lb)         Gross Weight       3.9 kg (8.60 lb)         Analytics+ Functions       • Detects and captures a snapshot of a human face in a defined area within a scene.         • Differentiates between and classifies human and vehicle objects.       • Filters false alarms due to leaves, lights, an	Input	One (1) channel (LINE IN, bare wire)	
Alarm Output One (1) Channel  Capture, Recording, Send Email, Preset, Tour, Pattern, Alarm Digital Input  Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict Detection, Memory Card State Detection, Memory Space Detection  Electrical  Power Supply  Power Basic 9 W Consumption Maximum 20 W (Illuminator + Alarm + PTZ)  Environmental  Operating Temperature -40 °C to +70 °C (-40 °F to +158 °F)  Operating Humidity ≤ 95%  Storage Temperature -40 °C to +70 °C (-40 °F to +158 °F)  Storage Humidity ≤ 95%  Ingress Protection IP66  Surge Protection Tvs 6000 v  Construction  Product Dimensions 270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight 2.4 kg (5.29 lb)  Gross Weight 3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection • Detection of Detection		One (1) channel (LINE OUT,bare wire)	
Output       One (1) Channel         Alarm Linkage       Capture, Recording, Send Email, Preset, Tour, Pattern, Alarm Digital Input         Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict Detection, Memory Card State Detection, Memory Space Detection         Electrical         Power Supply       12 VDC/3A±10%, PoE (802.3at)         Power Consumption       9 W         Maximum       20 W (Illuminator + Alarm + PTZ)         Environmental       Operating Temperature         Operating Humidity       ≤ 95%         Storage Temperature       −40 °C to +70 °C (−40 °F to +158 °F)         Storage Humidity       ≤ 95%         Ingress Protection       IP66         Surge Protection       TVS 6000 V         Construction       Product Dimensions       270.4 mm × Φ160 mm (10.65" × Φ6.30")         Net Weight       2.4 kg (5.29 lb)         Gross Weight       3.9 kg (8.60 lb)         Analytics+ Functions         Face Detection       • Detects and captures a snapshot of a human face in a defined area within a scene.         • Differentiates between and classifies human and vehicle objects.       • Filters false alarms due to leaves, lights, animals,	Alarm	Two (2) Channel	
Alarm Linkage  Alarm Digital Input  Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict Detection, Memory Card State Detection, Memory Space Detection  Electrical  Power Supply  12 VDC/3A±10%, PoE (802.3at)  Power Basic 9 W Consumption Maximum 20 W (Illuminator + Alarm + PTZ)  Environmental  Operating Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Operating Humidity  ≤ 95%  Storage Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Storage Humidity  ≤ 95%  Ingress Protection  IP66  Surge Protection  TVS 6000 V  Construction  Product Dimensions  270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight  2.4 kg (5.29 lb)  Gross Weight  Analytics+ Functions  Face Detection  • Detects and captures a snapshot of a human face in a defined area within a scene.  • Differentiates between and classifies human and vehicle objects.  • Filters false alarms due to leaves, lights, animals,		One (1) Channel	
Alarm Event       Network Disconnection Detection, IP Conflict Detection, Memory Card State Detection, Memory Space Detection         Electrical       Power Supply       12 VDC/3A±10%, PoE (802.3at)         Power Consumption       Basic 9 W         Consumption Maximum       20 W (Illuminator + Alarm + PTZ)         Environmental       Operating Temperature         Operating Temperature       −40 °C to +70 °C (−40 °F to +158 °F)         Operating Humidity       ≤ 95%         Storage Temperature       −40 °C to +70 °C (−40 °F to +158 °F)         Storage Humidity       ≤ 95%         Ingress Protection       IP66         Surge Protection       TVS 6000 V         Construction       Product Dimensions         270.4 mm × Φ160 mm (10.65" × Φ6.30")         Net Weight       2.4 kg (5.29 lb)         Gross Weight       3.9 kg (8.60 lb)         Analytics+ Functions         Face Detection       • Detects and captures a snapshot of a human face in a defined area within a scene.         • Differentiates between and classifies human and vehicle objects.       • Filters false alarms due to leaves, lights, animals,	Alarm Linkage	Alarm Digital Input	
Power Supply       12 VDC/3A±10%, PoE (802.3at)         Power Consumption       9 W         Consumption       20 W (Illuminator + Alarm + PTZ)         Environmental       Operating Temperature         Operating Humidity       ≤ 95%         Storage Temperature       −40 °C to +70 °C (−40 °F to +158 °F)         Storage Humidity       ≤ 95%         Ingress Protection       IP66         Surge Protection       TVS 6000 V         Construction       270.4 mm × Φ160 mm (10.65" × Φ6.30")         Net Weight       2.4 kg (5.29 lb)         Gross Weight       3.9 kg (8.60 lb)         Analytics+ Functions         Face Detection          • Detects and captures a snapshot of a human face in a defined area within a scene.          • Differentiates between and classifies human and vehicle objects.          • Filters false alarms due to leaves, lights, animals,	Alarm Event	Network Disconnection Detection, IP Conflict Detection, Memory Card State Detection, Memory	
Power Consumption       Basic Maximum       9 W         Consumption Environmental       20 W (Illuminator + Alarm + PTZ)         Operating Temperature       −40 °C to +70 °C (−40 °F to +158 °F)         Operating Humidity       ≤ 95%         Storage Temperature       −40 °C to +70 °C (−40 °F to +158 °F)         Storage Humidity       ≤ 95%         Ingress Protection       IP66         Surge Protection       TVS 6000 V         Construction       270.4 mm × Φ160 mm (10.65" × Φ6.30")         Net Weight       2.4 kg (5.29 lb)         Gross Weight       3.9 kg (8.60 lb)         Analytics+ Functions         Face Detection          • Detects and captures a snapshot of a human face in a defined area within a scene.         • Differentiates between and classifies human and vehicle objects.          • Filters false alarms due to leaves, lights, animals,	Electrical		
Consumption Maximum 20 W (Illuminator + Alarm + PTZ)  Environmental  Operating Temperature −40 °C to +70 °C (−40 °F to +158 °F)  Operating Humidity ≤ 95%  Storage Temperature −40 °C to +70 °C (−40 °F to +158 °F)  Storage Humidity ≤ 95%  Ingress Protection IP66  Surge Protection TVS 6000 V  Construction  Product Dimensions 270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight 2.4 kg (5.29 lb)  Gross Weight 3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection • Detection • Detection • Differentiates between and classifies human and vehicle objects.  • Filters false alarms due to leaves, lights, animals,	Power Supply	12 VDC/3A±10%, PoE (802.3at)	
Environmental  Operating Temperature	Power Basic	9 W	
Operating Temperature	Consumption Maximum	20 W (Illuminator + Alarm + PTZ)	
Operating Humidity ≤ 95%  Storage Temperature −40 °C to +70 °C (−40 °F to +158 °F)  Storage Humidity ≤ 95%  Ingress Protection IP66  Surge Protection TVS 6000 V  Construction  Product Dimensions 270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight 2.4 kg (5.29 lb)  Gross Weight 3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection • Detection • Detection • Differentiates between and classifies human and vehicle objects.  • Filters false alarms due to leaves, lights, animals,	Environmental		
Storage Temperature  -40 °C to +70 °C (-40 °F to +158 °F)  Storage Humidity  ≤95%  Ingress Protection  IP66  Surge Protection  TVS 6000 V  Construction  Product Dimensions  270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight  2.4 kg (5.29 lb)  Gross Weight  3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection  • Detects and captures a snapshot of a human face in a defined area within a scene.  • Differentiates between and classifies human and vehicle objects.  • Filters false alarms due to leaves, lights, animals,	Operating Temperature		
Storage Humidity       ≤ 95%         Ingress Protection       IP66         Surge Protection       TVS 6000 V         Construction       270.4 mm × Φ160 mm (10.65" × Φ6.30")         Net Weight       2.4 kg (5.29 lb)         Gross Weight       3.9 kg (8.60 lb)         Analytics+ Functions         Face Detection          • Detects and captures a snapshot of a human face in a defined area within a scene.          • Differentiates between and classifies human and vehicle objects.         • Filters false alarms due to leaves, lights, animals,	Operating Humidity	23070	
Ingress Protection  Surge Protection  TVS 6000 V  Construction  Product Dimensions  270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight  2.4 kg (5.29 lb)  Gross Weight  3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection  • Detects and captures a snapshot of a human face in a defined area within a scene.  • Differentiates between and classifies human and vehicle objects.  • Filters false alarms due to leaves, lights, animals,		–40 °C to +70 °C (–40 °F to +158 °F)	
Surge Protection  TVS 6000 V  Construction  Product Dimensions  270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight  2.4 kg (5.29 lb)  Gross Weight  3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection  • Detects and captures a snapshot of a human face in a defined area within a scene.  • Differentiates between and classifies human and vehicle objects.  • Filters false alarms due to leaves, lights, animals,	Storage Humidity	≤ 95%	
Construction  Product Dimensions 270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight 2.4 kg (5.29 lb)  Gross Weight 3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection • Detects and captures a snapshot of a human face in a defined area within a scene.  • Differentiates between and classifies human and vehicle objects. • Filters false alarms due to leaves, lights, animals,	Ingress Protection	IP66	
Product Dimensions 270.4 mm × Φ160 mm (10.65" × Φ6.30")  Net Weight 2.4 kg (5.29 lb)  Gross Weight 3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection • Detects and captures a snapshot of a human face in a defined area within a scene.  • Differentiates between and classifies human and vehicle objects.  • Filters false alarms due to leaves, lights, animals,	Surge Protection	TVS 6000 V	
Net Weight  2.4 kg (5.29 lb)  3.9 kg (8.60 lb)  Analytics+ Functions  Face Detection  Detects and captures a snapshot of a human face in a defined area within a scene.  Differentiates between and classifies human and vehicle objects.  Filters false alarms due to leaves, lights, animals,	Construction		
Gross Weight  3.9 kg (8.60 lb)  Analytics+ Functions  • Detects and captures a snapshot of a human face in a defined area within a scene.  • Differentiates between and classifies human and vehicle objects. • Filters false alarms due to leaves, lights, animals,	Product Dimensions	270.4 mm × Φ160 mm (10.65" × Φ6.30")	
Analytics+ Functions  • Detects and captures a snapshot of a human face in a defined area within a scene.  • Differentiates between and classifies human and vehicle objects.  • Filters false alarms due to leaves, lights, animals,	Net Weight	2.4 kg (5.29 lb)	
Detects and captures a snapshot of a human face in a defined area within a scene.     Differentiates between and classifies human and vehicle objects.     Filters false alarms due to leaves, lights, animals,	Gross Weight	3.9 kg (8.60 lb)	
a defined area within a scene.  • Differentiates between and classifies human and vehicle objects.  • Filters false alarms due to leaves, lights, animals,	Analytics+ Functions		
vehicle objects. • Filters false alarms due to leaves, lights, animals,	Face Detection		
<ul> <li>Extracts human or vehicle objects from recorded video for quick target search and retrieval.</li> </ul>	Smart Motion Detection	vehicle objects.  Filters false alarms due to leaves, lights, animals, and other inconsequential objects.  Extracts human or vehicle objects from recorded	

Parking Detection

Crowd Gathering

Human/Vehicle Classification

Perimeter Protection  Tripwire: a target crosses a defined line. Intrusion: a target enters or exits a defined perimeter.  Monitors a combination of detection methods.	Perimeter Protection  Tripwire: a target crosses a defined line.
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	- Worldon's a combination of actection metrious.			
Intelligent Video System (	(IVS) 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.			
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				
Loitering Detection	Target is in motion inside a defined area longer than a specified amount of time.			
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.

area for a set time.

Intrusion detection methods.

Specified number of people remain inside a defined

Detects human or vehicle violations using Tripwire or

Ordering Information			
Туре	Part Number	Description	
Network Camera	49425GBNR	4MP 25x Starlight IR Network PTZ Camera	
Accessories (Included)	PFB305W	Wall Mount Bracket	
Accessories (Optional)	PFA120	Junction Box	
	PFA111	Mount Adapter	
	PFB300C	Ceiling Mount Bracket	
	PFA150	Pole Mount Bracket	
	PFA151	Corner Mount Bracket	
	PFB303S	Parapet Mount Bracket	
	DH-PFB301S-E	Plane Mount Bracket	
	S042-1A120300HU	12 VDC, 3 A Power Adapter	

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



## Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



PFA120 Junction Box



PFA150 Pole Mount Bracket



DH-PFB301S-E Plane Mount Bracket



PFA111 Mount Adapter





Corner Mount Bracket



PFB303S Parapet Mount Bracket

PFB300C Ceiling Mount Bracket



S042-1A120300HU 12 VDC, 3 A Power Adapter

Installation		
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.]

