

4MP Starlight Network Bullet Camera

True Wide Dynamic Network Camera with Smart Motion Detection







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 Dahua 4 MP Starlight camera offers Smart Motion Detection for improved alarm accuracy from intrusion and tripwire functions. The camera is ideal for a host of diverse applications — Starlight, True Wide Dynamic Range, and IR illumination allow the camera to operate in any lighting condition. The camera is a component of the Dahua ArcticPro series and is rated to IP67 allowing the camera to deliver high-quality and reliable video in the harshest environments.

Functions

Perimeter Protection

Dahua Analytics+ includes Tripwire and Intrusion functions that offer custom tripwires based on object type for automation in limited access areas. Perimeter Protection requires less pixels to detect an object to deliver improved accuracy and decreased false alarms due to lights, weather, trees, or animals.

Smart Motion Detection

Smart Motion Detection, a component of Dahua's Analytics+ technology, improves alarm accuracy and decreases the number of false alarms. The advanced SMD algorithm analyzes a scene for human or vehicle motion, while filtering out other motion due to trees, leaves, animals, weather, and triggers an alarm when detected. SMD also saves time when searching recorded video by filtering false alarms and allowing quick retrieval of an alarm due to a person or vehicle.

- 1/3 in. 4 MP Progressive-scan CMOS Sensor
- Triple-stream Encoding
- Smart H.265+ and Smart H.264+ Dual Codec
- 4 MP (2688 x 1520) at 30 fps, 2.8 mm Fixed Lens
- Starlight Technology for Low-light Applications
- Analytics+ Function Perimeter Protection and Smart Motion Detection
- True Wide Dynamic Range (120 dB) and Day/Night IR Cut Filter
- Maximum IR LED Distance 50 m (164.04 ft)
- Built-in Microphone
- Enhanced Power and Data Transmission Distances (ePoE)
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP67 Ingress Protection
- Five-year Warranty*













ArcticPro

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.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light conditions. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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.

Environmental

Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications. The camera offers a wide voltage range, with a 30% input voltage tolerance, suitable for external applications with unstable power sources.



Technical Specification					
Camera					
Image Sensor		1/3-in. 4 MP CM	1OS		
Effective Pixels		2688(H) x 1520((V)		
RAM/ROM		512 MB/128 ME	3		
Scanning System	m	Progressive			
Electronic Shut	ter Speed	Auto, Manual, 1	./3 s to 1/100,0	000 s	
Minimum Illum	ination	Color: 0.005 lux 0 lux at F1.6 (IR			
S/N Ratio		> 56 dB			
IR Distance		Up to 50.0 m (1	64.04 ft)		
IR On/Off Conti	rol	Auto, Manual			
IR LEDs		One (1)			
Lens					
Lens Type		Fixed Focal			
Iris Type		Fixed Aperture			
Mount Type		M12			
Focal Length		2.8 mm			
Maximum Ape	rture	F1.6			
Angle of View		Horizontal: 103° Vertical: 55° Diagonal: 122°			
Close Focus Dis	tance	0.90 m (2.95 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance ¹	2.8 mm	56.0 m (183.73 ft)	22.40 m (73.49 ft)	11.20 m (36.75 ft)	5.60 m (18.37 ft
Installation	Angle				
Range		Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 360°			
Video					
Compression		Smart H.265+, H H.264H, MJPEG			Н.264В,
Streaming Capa	ability	Three (3) Streams			
Resolution		4 MP (2688 x 1520), 3 MP (2304 x 1296), 1080p (1920 x 1080), 1.3 MP (1280 x 960), 720p (1280 x 720), D1 (704 x 480), VGA (640 x 480), CIF (352 x 240)			
		Main Stream: 4 MP (2688 x 1520) at 30 fps			
Frame Rate		Sub Stream 1: D1 (704 x 480) at 30 fps			
		Sub Stream 2: 720p (1280 x 720) at 30 fps			
Bit Rate Control		CBR/VBR			
Bit Rate		H.264: 3 Kbps to 8192 Kbps H.265: 3 Kbps to 8192 Kbps			
Bit Rate			Auto (ICR), Color, B/W		
Day/Night		Auto (ICR), Colo	r, B/W		

Protocol RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, PPPoE, 802.1x, SNMP Interoperability ONVIF Profile S and G, CGI, Milestone, Genetec, Auto Register Support Self-adaptive Scene Support Streaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Retwork Attached Storage (NAS) FTP, SFTP, Micro SD Card Slot, maximum 256 GB Web Viewer IE (Version 8 and higher), Chrome, Firefox, Management Software Smart PSS, DSS, DMSS Mobile Operating System Certifications UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:24 + A2:2013 IEC 60950-1:2005 (Second Edition) Electromagnetic Compatibility (EMC) Electromagnetic Compatibility (EMC) Interface	Noise Reduction			
Advanced Features Image Rotation Or, 90°, 180°, 270° (supports 90°, 270° at 1920 x 1080 resolution) Mirror Off, On Privacy Masking Off, On (4 Areas, Rectangular) Audio Compression G.711a, G.711Mu, AAC, G.726, PCM Network Ethernet RJ-45 (10/100 Base-T) IPv4, IPv6, HTTP, HTTPS, TCP, UDP, ARP, RTP, RTRCP, RTMCP, RTMCP, RTMCP, RTMCP, RTMCP, RTMCP, RTMCP, RTMCP, STMP, DHCP, DNS, DDNS, OLOS, UPP, NTP, Multicast, ICMP, IGMP, NFS, PPPOE, 802.1x, SNMP Interoperability ONVIF Profile S and G, CGI, Milestone, Genetec, Support Self-adaptive Scene Support Streaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Meb Viewer IE (Version 8 and higher), Chrome, Firefox, Management Software Meb Viewer IE (Version 8 and higher), Chrome, Firefox, Mobile Operating System IOS, Android Certifications Safety UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + Al1:2009 + Al1:2010 + Al2:2 + Al2:2013 IEC 60950-1:2005 (Second Edition) 47 CFR FCC Part 15, Subpart B, Class B EN 55032:2015, Class B; EN 61000-3-2:2014; EN 55032:2017; EN 50130-4:2011+Al:2014 Interface Audio Output One (1) Channel, RCA Input One (1) Channel (5 mA, 3 to 5 VDC) Output One (1) Channel (500 mA, 12 VDC)	Motion Detection			
Image Rotation 0°, 90°, 180°, 270° (supports 90°, 270° at 1920 x 1080 resolution) Mirror Off, On Privacy Masking Off, On (4 Areas, Rectangular) Audio Compression G.711a, G.711Mu, AAC, G.726, PCM Network Ethernet RJ-45 (10/100 Base-T) Protocol Privacy Masking Protocol RTCP, RTMP, SMTP, FTP, STTP, DHCP, DNS, DDN: QoS, UPRP, NTP, Multicast, ICMP, IGMP, NFS, PPPOE, 802.1x, SMMP Interoperability ONVIF Profile S and G, CGI, Milestone, Genetec, Auto Register Support Streaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Edge Storage Rectangular R				
Supports 90*, 270* at 1920 x 1080 resolution	Advanced Features			
Audio Compression G.711a, G.711Mu, AAC, G.726, PCM Network Ethernet RJ-45 (10/100 Base-T) Protocol	Image Rotation			
Audio Compression G.711a, G.711Mu, AAC, G.726, PCM Network Ethernet RJ-45 (10/100 Base-T) Protocol	Mirror		Off, On	
Compression G.711a, G.711Mu, AAC, G.726, PCM Network Ethernet RJ-45 (10/100 Base-T) Protocol RTCP, RTMP, SMTP, FTP, STTP, DHCP, DNS, DDN: QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, PPPoE, 802.1x, SNMP Interoperability ONVIF Profile S and G, CGI, Milestone, Genetec, Support Streaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Retwork Attached Storage (NAS) FTP, SFTP, Micro SD Card Slot, maximum 256 GB Web Viewer IE (Version 8 and higher), Chrome, Firefox, Management Software Smart PSS, DSS, DMSS Mobile Operating System IOS, Android Certifications Safety UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:24 + A2:2013 IEC 60950-1:2005 (Second Edition) 47 CFR FCC Part 15, Subpart B, Class B EN 55032:2015, Class B; EN 61000-3-2:2014; EN 55032:2017; EN 50130-4:2011+A1:2014 Interface Audio Output One (1) Channel, RCA plus a Built-in Microphone Alarm Output One (1) Channel, RCA Output One (1) Channel (5 mA, 3 to 5 VDC) Output One (1) Channel (500 mA, 12 VDC) Electrical	Privacy Masking	3	Off, On (4 Areas, Rectangular)	
Network Ethernet RJ-45 (10/100 Base-T) Protocol RP4, IPv6, HTTP, HTTPS, TCP, UDP, ARP, RTP, RTRCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, PPPOE, 802.1x, SNMP Interoperability ONVIF Profile S and G, CGI, Milestone, Genetec, Auto Register Support Self-adaptive Scene Support Streaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Edge Storage Refuser	Audio			
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Protocol	Network			
Protocol RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPPN, NTP, Multicast, ICMP, IGMP, NFS, PPPoE, 802.1x, SNMP Interoperability ONVIF Profile S and G, CGI, Milestone, Genetec, Auto Register Support Steaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Edge Storage Network Attached Storage (NAS) FTP, SFTP, Micro SD Card Slot, maximum 256 GB Web Viewer IE (Version 8 and higher), Chrome, Firefox, Management Software Smart PSS, DSS, DMSS Mobile Operating System IOS, Android Certifications UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2 + A2:2013 IEC 60950-1:2005 (Second Edition) 47 CFR FCC Part 15, Subpart B, Class B EN 55032:2015, Class B, EN 61000-3-2:2014; EN 61000-3-3:2013; EN 55024:2010+A1:2014 Interface Audio Input One (1) Channel, RCA plus a Built-in Microphone Alarm Output One (1) Channel, RCA Input One (1) Channel (5 mA, 3 to 5 VDC) Output One (1) Channel (300 mA, 12 VDC) Electrical	Ethernet		RJ-45 (10/100 Base-T)	
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Management Software Smart PSS, DSS, DMSS Mobile Operating System IOS, Android Certifications UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2 + A2:2013 IEC 60950-1:2005 (Second Edition) Electromagnetic Compatibility (EMC) 47 CFR FCC Part 15, Subpart B, Class B EN 55032:2015, Class B; EN 61000-3-2:2014; EN 61000-3-3:2013; EN 55024:2010+A1:2015; EN 55035:2017; EN 50130-4:2011+A1:2014 Interface Input One (1) Channel, RCA plus a Built-in Microphone Output One (1) Channel, RCA Alarm Input One (1) Channel (5 mA, 3 to 5 VDC) Output One (1) Channel (300 mA, 12 VDC)	Edge Storage		FTP, SFTP,	
Mobile Operating System IOS, Android Certifications UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2 + A2:2013 IEC 60950-1:2005 (Second Edition) Electromagnetic Compatibility (EMC) 47 CFR FCC Part 15, Subpart B, Class B EN 55032:2015, Class B; EN 61000-3-2:2014; EN 61000-3-3:2013; EN 55024:2010+A1:2015; EN 55035:2017; EN 50130-4:2011+A1:2014 Interface Input One (1) Channel, RCA plus a Built-in Microphone Output One (1) Channel, RCA Alarm Input One (1) Channel (5 mA, 3 to 5 VDC) Output One (1) Channel (300 mA, 12 VDC)	Web Viewer		IE (Version 8 and higher), Chrome, Firefox,	
Certifications UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2 + A2:2013 IEC 60950-1:2005 (Second Edition) 47 CFR FCC Part 15, Subpart B, Class B EN 55032:2015, Class B; EN 61000-3-2:2014; EN 61000-3-3:2013; EN 55024:2010+A1:2015; EN 55035:2017; EN 50130-4:2011+A1:2014 Interface Audio Unput One (1) Channel, RCA plus a Built-in Microphone Output One (1) Channel, RCA Input One (1) Channel (5 mA, 3 to 5 VDC) Output One (1) Channel (300 mA, 12 VDC) Electrical	Management So	oftware	Smart PSS, DSS, DMSS	
UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07	Mobile Operation	ng System	IOS, Android	
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2 + A2:2013 IEC 60950-1:2005 (Second Edition)	Certification	ıs		
Electromagnetic Compatibility (EMC) EN 55032:2015, Class B; EN 61000-3-2:2014; EN 61000-3-3:2013; EN 55024:2010+A1:2015; EN 55035:2017; EN 50130-4:2011+A1:2014 Interface Audio Input One (1) Channel, RCA plus a Built-in Microphone Output One (1) Channel, RCA Input One (1) Channel (5 mA, 3 to 5 VDC) Output One (1) Channel (300 mA, 12 VDC) Electrical	Safety		EN 60950-1:2006 + A11:2009 + A1:2010 + A12:201 + A2:2013	
Audio Input One (1) Channel, RCA plus a Built-in Microphone Output One (1) Channel, RCA Input One (1) Channel (5 mA, 3 to 5 VDC) Output One (1) Channel (300 mA, 12 VDC) Electrical			EN 55032:2015, Class B; EN 61000-3-2:2014; EN 61000-3-3:2013; EN 55024:2010+A1:2015;	
Audio Output One (1) Channel, RCA Input One (1) Channel (5 mA, 3 to 5 VDC) Output One (1) Channel (300 mA, 12 VDC) Electrical	Interface			
Output One (1) Channel, RCA Input One (1) Channel (5 mA, 3 to 5 VDC) Output One (1) Channel (300 mA, 12 VDC) Electrical		Input	One (1) Channel, RCA plus a Built-in Microphone	
Alarm Output One (1) Channel (300 mA, 12 VDC) Electrical	Audio	Output	One (1) Channel, RCA	
Output One (1) Channel (300 mA, 12 VDC) Electrical		Input	One (1) Channel (5 mA, 3 to 5 VDC)	
	Alarm	Output	One (1) Channel (300 mA, 12 VDC)	
Power Supply 12 VDC or PoE (IEEE 802.3af, Class 0)	Electrical			
	Power Supply		12 VDC or PoE (IEEE 802.3af, Class 0)	
Power Consumption < 5.4 W	Power Consumption		< 5.4 W	

Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom

Auto, Manual, Shutter Priority, Gain Priority

3D DNR

White Balance
Gain Control

Noise Reduction

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 +60° C (-40° F to +140° F), Less than 95% RH
Storage Conditions	-40° C to +60° C (-40° F to +140° F)
Ingress Protection	IP67
Construction	
Casing	Metal
Dimensions	192.70 mm x 70.50 x 66.40 mm (7.59 in. x 2.77 in. x 2.61 in.)
Net Weight	0.59 kg (1.30 lb)

0.78 kg (1.72 lb)

Analytics+ Functions

Gross Weight

Perimeter Protection	Detects human or vehicle violations using the following methods: Tripwire: a target crosses a defined line. Intrusion: a target enters or exits a defined perimeter Monitors a combination of nine (9) detection methods. Search and retrieve video based on target type.
Smart Motion Detection ²	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 System Functions

IVS triggers an alarm and takes a defined action for the following events:

Standard	Fasturas

- 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.
- IP Address Conflict

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.

Pair a Smart Motion Detection camera with a Dahua recording device that also offers SMD functionality to take advantage of SMD alarm filtering and object classification when searching and playing back recorded

ePoE Transmission Distances

Via CAT5E/CAT6 Ethernet Cable

ePoE supply voltage 48 V Maximum DC resistance < $10 \Omega/100 \text{ m}$

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	53	IEEE/E100
200 (656)	100	25.5	33	E100
300 (984)	100	19	19	E100
400 (1312)	10	17	17	E10
500 (1640)	10	13	13	E10
800 (2625)	10	7	7	E10

Via CAT5E/CAT6 Ethernet Cable

ePoE supply voltage 53 V Maximum DC resistance < 10 Ω/100 m

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	53	IEEE/E100
200 (656)	100	25.5	47	E100
300 (984)	100	25.5	32	E100
400 (1312)	10	23	26	E10
500 (1640)	10	20	20	E10
800 (2625)	10	13	13	E10

Via RG-59 Coaxial Cable

ePoE supply voltage 48 V Maximum DC resistance $< 5 \Omega/100 \text{ m}$

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	50	IEEE/E100
200 (656)	100	25.5	30	E100
300 (984)	100	18	18	E100
400 (1312)	100	15	15	E100
500 (1640)	10	12	12	E10
800 (2625)	10	6	6	E10
1000 (3281)	10	5	5	E10

Via RG-59 Coaxial Cable

ePoE supply voltage 53 V Maximum DC resistance < 5 $\Omega/100$ m

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	52	IEEE/E100
200 (656)	100	25.5	48	E100
300 (984)	100	25.5	30	E100
400 (1312)	100	20	23	E100
500 (1640)	10	16	16	E10
800 (2625)	10	10	10	E10
1000 (3281)	10	8	8	E10



Ordering Information				
Туре	Part Number	Description		
4 MP Camera	N43AB52	4 MP Starlight Fixed Lens Bullet Camera with Smart Motion Detection		
	PFA130-E	Junction Box		
Accessories, optional	PFA151	Corner Mount		
	PFA152-E	Pole Mount (Use with PFA130-E Junction Box)		
	DH-PFM321D-US	12 VDC, 1 A Power Adapter		

Accessories

Optional:









PFA130-E Junction Box

PFA151 Corner Mount

PFA152-E Pole Mount

DH-PFM321D-US 12 VDC, 1 A Power Adapter

Pole Mount	Junction Box
PFA130-E+PFA152-E	PFA130-E

Dimensions







