

4MP Starlight Vari-focal Network Dome 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 security for small to medium size businesses at a sensible price.

System Overview

The Dahua 4MP 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 rated to the IP67 Ingress Protection and to the IK10 Vandal Resistance standards, 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 (SMD)

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. 4MP Progressive-scan CMOS Sensor
- Triple-stream Encoding
- Smart H.265+ and Smart H.264+ Dual Codec
- 4MP (2688 x 1520) at 30 fps
- 2.7 mm to 13.5 mm Motorized Vari-focal 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 40 m (131.23 ft)
- Enhanced Power and Data Transmission Distances (ePoE)
- IP67 Ingress Protection and IK10 Vandal Resistance
- Five-year Warranty*













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.

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.

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. The camera offers a wide voltage range, with a 30% input voltage tolerance, suitable for external applications with unstable power sources.

Technical S	pecificati	ion			
Camera					
Image Sensor		1/3-in. 4MP CM	IOS		
Effective Pixels		2688(H) x 1520	(V)		
RAM/ROM		512 MB/128 M	В		
Scanning System	m	Progressive			
Electronic Shut	ter Speed	Auto, Manual, 1	L/3 s to 1/100,0	000 s	
Minimum Illum	ination	Color: 0.005 lux 0 lux at F1.5 (IR			
S/N Ratio		> 56 dB			
IR Distance		Up to 40.0 m (1	31.23 ft)		
IR On/Off Conti	rol	Auto, Manual			
IR LEDs		Two (2)			
Lens					
Lens Type		Motorized Vari-	focal		
Iris Type Mount Type		Fixed Aperture Ø14			
Focal Length		2.7 mm to 13.5	mm		
Maximum Aper	rture	F1.5			
Angle of View		Horizontal: 104° to 27° Vertical: 55° to 15° Diagonal: 124° to 31°			
Close Focus Dis	tance	0.80 m (2.62 ft)			
	Focus	Detect	Observe	Recognize	Identify
DORI Distance ¹	Wide	64.0 m (209.97 ft)	25.60 m (83.99 ft)	12.80 m (41.99 ft)	6.40 m (21.0 ft)
	Tele	222.0 m (728.35 ft)	88.80 m (291.34 ft)	44.40 m (145.67)	22.20 m (72.84)
Installation	Angle				
Range		Pan: 0° to 355° Tilt: 0° to 75° Rotation: 0° to 355°			
Video					
Compression		Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H, MJPEG (Sub Stream only)			
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: 4MP (2688 x 1520) at 30 fps			
Frame Rate		Sub Stream 1: D	01 (704 x 480) a	at 30 fps	
			20p (1280 x 72	(10) at 30 fps	
	Bit Rate Control		CBR/VBR		
Bit Rate Contro	I	CDITY V DIT	H.264: 3 Kbps to 8192 Kbps H.265: 3 Kbps to 8192 Kbps		
Bit Rate Contro	il	H.264: 3 Kbps to	•		
	ıl	H.264: 3 Kbps to	o 8192 Kbps		

	H.265: 3 Kbps to 8192 Kbps		
	Day/Night Auto (ICR), Color, B/W		
	BLC Mode	BLC, HLC, True WDR (120 dB), SSA	
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1	 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. 		
		us.dahua	

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, P2P Auto Register Support Streaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Network Attached Storage (NAS) FTP, SFTP, Micro SD Card Slot, maximum 256 GB Web Viewer IE (Version 8 and higher), Chrome, Firefox, Management Software DSS, DMSS Mobile Operating System 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 UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07		
Noise Reduction Motion Detection Off, On (4 Zones, Rectangular) Region of Interest Off, On (4 Zones) Advanced Features Smart IR, Smart-scene Adaptive (5SA) Image Rotation O", 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, G.726 Network Ethernet RI-45 (10/100 Base-T) Protocol RIPV4, IPV6, HTTP, HTTPS, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DMS, DDNS, OoS, UPRP, NTP, Multicast, ICMP, IGMP, NFS, PPPOE, 802, 1x, SNMP Interoperability ONVIF Profile S and G, CGI, P2P Auto Register Support Streaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Edge Storage Register IE (Version 8 and higher), Chrome, Firefox, Management Software DSS, DMSS Mobile Operating System IOS, Android Video Encryption, Eirmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/NAC Filtering, Generating and Importing X-500 certification, Sysigh, HTTPS, 802, 1x, Trusted Boot, Trusted Execution, Trusted Upgrarde Certifications Electromagnetic Compatibility En 60950-1: 2006 + A11: 2009 + A1: 2019 + A1: 2011 + A1: 201	White Balance	
Motion Detection Off, On (4 Zones, Rectangular) Region of Interest Off, On (4 Zones) Advanced Features Smart IR, Smart-scene Adaptive (5SA) Image Rotation O", 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, G.726 Network Ethernet R.45 (10/100 Base-T) Protocol Protocol Roy, 1974, 197	Gain Control	Auto, Gain Priority, Shutter Priority, Manual
Region of Interest Off, On (4 Zones) Advanced Features Smart IR, Smart-scene Adaptive (SSA) 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, G.726 Network Ethernet RJ-45 (10/100 Base-T) Protocol RPV4, IPV6, HTTP, HTTPS, TCP, UDP, ARP, RTP, RTSP RTCP, RTMP, SMTP, FTP, STTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, PPP06, 802. 1x, SNMIP Interoperability ONVIF Profile S and G, CGI, P2P Auto Register Support Streaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Register Support Stream Register (NAS) FTP, SFTP, Micro SD Card Slot, maximum 256 GB Web Viewer IE (Version 8 and higher), Chrome, Firefox, Management Software DSS, DMSS Mobile Operating System IOS, Android Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IPMAC Filtering, Generating Importing X-509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade Certifications Electromagnetic Compatibility (EMC) Encops-1-2018, EN S5032-2015, Class B, EN 61000-3-2-2014; EN 65032-2015, Class B, EN 61000-3-2-2014; EN 61000-3-3-2017; EN 55032-2015, Class B, EN 61000-3-2-2014; EN 61000-3-3-2017; EN 55032-2015, Class B, EN 61000-3-2-2014; EN 61000-3-3-2014; EN 6100	Noise Reduction	3D DNR
Advanced Features	Motion Detection	Off, On (4 Zones, Rectangular)
Image Rotation O", 90', 180', 270" at 1920 x 1080 resolution) Mirror Off, On Privacy Masking Off, On (4 Areas, Rectangular) Audio Compression G.711a, G.711Mu, G.726 Network Ethernet RJ-45 (10/100 Base-T) IPV4, IPV6, HTTP, HTTPS, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, STPD, DHCP, DMS, DDNS, QoS, Upp-, NTP, Multicast, ICMP, IGMP, NFS, PPP0E, 802.1x, SNMP Interoperability ONVIF Profile S and G, CGI, P2P Auto Register Support Streaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Edge Storage Web Viewer IE (Version 8 and higher), Chrome, Firefox, Management Software DSS, DMSS Mobile Operating System IOS, Android Vide Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generatin and Importing X-509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade Certifications Electromagnetic Compatibility Electro	Region of Interest	Off, On (4 Zones)
Image Rotation (supports 90°, 270° at 1920 x 1080 resolution)	Advanced Features	Smart IR, Smart-scene Adaptive (SSA)
Audio Compression G.711a, G.711Mu, G.726 Network Ethernet RJ-45 (10/100 Base-T) Protocol	Image Rotation	
Audio Compression G.711a, G.711Mu, G.726 Network Ethernet RJ-45 (10/100 Base-T) Protocol Protocol Protocol ROW, RTP, BTTP, BTTP, BTTP, DLP, DDP, ARP, RTP, RTSP, 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, P2P Auto Register Support Streaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Edge Storage FTP, SFTP, Micro SD Card Slot, maximum 256 GB Web Viewer IE (Version 8 and higher), Chrome, Firefox, Management Software DSS, DMSS Mobile Operating System 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 UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2014 + A2:2013 IEC 60950-1:2005 (Second Edition) ### CFR FCC Part 15, Subpart B, Class B Electromagnetic Compatibility En 5003:2017; EN 50130-4:2011+A1:2014 Interface Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 3 to 5 VDC) Output: One (1) Channel (5 mA, 3 to 5 VDC) Output: One (1) Channel (100 mA, 12 VDC) Electrical Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Mirror	Off, On
Compression G.711a, G.711Mu, G.726 Network Ethernet RJ-45 (10/100 Base-T) IPV4, IPV6, HTTP, HTTPS, TCP, UDP, ARP, RTP, RTSP RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPPP, NTP, Multicast, ICMP, IGMP, NFS, PPPoE, 802.1x, SNMP Interoperability ONVIF Profile S and G, CGI, P2P Auto Register Support Streaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Redge Storage FTP, SFTP, Micro SD Card Slot, maximum 256 GB Web Viewer IE (Version 8 and higher), Chrome, Firefox, Management Software DSS, DMSS Mobile Operating System IOS, Android 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 UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 (+ A11:2009 + A1:2010 + A12:2014 + A2:2013 IEC 60950-1:2005 (Second Edition) Electromagnetic Compatibility (EMC) EN 61000-3-3:2015; Class B; EN 61000-3-2:2014; EN 55003:2015, Class B; EN 61000-3-2:2014; EN 55003:2015, EN 55035:2017; EN 50130-4:2011+A1:2014 Interface Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Input: One (1) Channel, GCA Output: One (1) Channel, GCA Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Privacy Masking	Off, On (4 Areas, Rectangular)
Retwork Ethernet RJ-45 (10/100 Base-T) Protocol Protocol Protocol RTCP, RTMP, SMTP, FTP, STPP, DHCP, DNS, DDNS, QOS, UPNP, NTP, Multicast, ICMP, IGMP, NFS, PPPOE, 802.1x, SNMP Interoperability ONVIF Profile S and G, CGI, P2P Auto Register Support Streaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Edge Storage FTP, SFTP, Micro SD Card Slot, maximum 256 GB Web Viewer IE (Version 8 and higher), Chrome, Firefox, Management Software DSS, DMSS Mobile Operating System IOS, Android Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generatir and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade Certifications Electromagnetic Compatibility Encops of Science and Filtering, Sension (EMC) and Science and Scienc	Audio	
Ethernet RJ-45 (10/100 Base-T) Protocol Protoco	Compression	G.711a, G.711Mu, G.726
Protocol Protocol	Network	
Protocol RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPNP, NTP, Multicast, ICMP, IGMP, NFS, PPPOE, 802.1x, SMMP Interoperability ONVIF Profile S and G, CGI, P2P Auto Register Support Streaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Network Attached Storage (NAS) FTP, SFTP, Micro SD Card Slot, maximum 256 GB Web Viewer IE (Version 8 and higher), Chrome, Firefox, Management Software DSS, DMSS Mobile Operating System OSS, Android Video Encryption, Firmware Encryption, Configuration Encryption, Firmware Encryption, Conf	Ethernet	RJ-45 (10/100 Base-T)
Auto Register Support Streaming Method Unicast / Multicast Maximum User Access 20 Users (total bandwidth: 64 Mbps) Network Attached Storage (NAS) FTP, SFTP, Micro SD Card Slot, maximum 256 GB Web Viewer IE (Version 8 and higher), Chrome, Firefox, Management Software DSS, DMSS Mobile Operating System IOS, Android Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generatir and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade Certifications UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:201 + 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 Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 3 to 5 VDC) Output: One (1) Channel (5 mA, 3 to 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Protocol	QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS,
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 DSS, DMSS Mobile Operating System IOS, Android Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generatir and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade Certifications UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:203 + 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 Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 3 to 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Interoperability	ONVIF Profile S and G, CGI, P2P
Maximum User Access 20 Users (total bandwidth: 64 Mbps) Redge 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 DSS, DMSS Mobile Operating System Os, Android Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generatir and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade Certifications UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:201 + 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 Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 3 to 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Auto Register	Support
Edge Storage Network Attached Storage (NAS) FTP, SFTP, Micro SD Card Slot, maximum 256 GB	Streaming Method	Unicast / Multicast
Edge Storage FTP, SFTP, Micro SD Card Slot, maximum 256 GB Web Viewer IE (Version 8 and higher), Chrome, Firefox, Management Software DSS, DMSS Mobile Operating System 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 UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2013 + 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 Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 3 to 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Maximum User Access	20 Users (total bandwidth: 64 Mbps)
Management Software DSS, DMSS Mobile Operating System IOS, Android 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 UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 IEC 60950-1:2005 (Second Edition) Electromagnetic Compatibility (EMC) Fig. 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 Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 3 to 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Edge Storage	FTP, SFTP,
Mobile Operating System Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generatir and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade Certifications UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2013 IEC 60950-1:2005 (Second Edition) Electromagnetic Compatibility (EMC) Fig. 5032:2015, 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 Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 3 to 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Web Viewer	IE (Version 8 and higher), Chrome, Firefox,
Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generatir and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade Certifications UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:201 + 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 Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Input: One (1) Channel (5 mA, 3 to 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Management Software	DSS, DMSS
Cybersecurity Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generatir and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade Certifications UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:201 + 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 Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 3 to 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Mobile Operating System	IOS, Android
Safety UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:201 + A2:2013 IEC 60950-1:2005 (Second Edition) Electromagnetic Compatibility (EMC) 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 Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 3 to 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Cybersecurity	Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generatin and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011	Certifications	
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 Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 3 to 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Safety	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:201 + A2:2013
Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Input: One (1) Channel (5 mA, 3 to 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)		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 Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Interface	
Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Audio	
Power Supply 12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)	Alarm	
	Electrical	
Power Consumption < 8.5 W	Power Supply	12 VDC, ePoE, or PoE (IEEE 802.3af, Class 0)
	Power Consumption	< 8.5 W

Environmental

Operating Conditions	-30° C to +60° C (-22° F to +140° F), Less than 95% RH
Storage Conditions	-40° C to +60° C (-40° F to +140° F)
Ingress Protection	IP67
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	ø122.0 mm x 88.90 mm (4.80 in. x 3.50 in.)
Net Weight	0.492 kg (1.09 lb)
Gross Weight	0.663 kg (1.46 lb)

Analytics+ Functions

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 Features

- Tampering with the camera.
- Error writing to an onboard Micro SD card.
- Error sending or receiving data over the network.

scene or covers the camera to obscure the scene.

- 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

^{2.} 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 video.

ePoE Transmission Distances

Via CAT5E/CAT6 Ethernet Cable

ePoE supply voltage 48 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	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 $\Omega/100$ 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 $< 5 \Omega/100 \text{ m}$

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	
4MP Camera	N43AM5Z-B	4MP Starlight Vari-focal Dome Camera with Smart Motion Detection, Black	
	PFA106	Mount Adapter	
	PFA137	Junction Box	
	DH-PFA137-B	Junction Box, Black	
	PFA151	Corner Mount (Use with PFA106 and PFB305W)	
	DH-PFA151-B	Corner Mount, Black (Use with PFA106 and PFB305W)	
Accessories, optional	PFA152-E	Pole Mount (Use with PFB203W Wall Mount)	
	DH-PFA152-E-B	Pole Mount, Black (Use with PFB203W-B Wall Mount)	
	PFA200W	Sun/Rain Shield (Use with PFB203W Wall Mount)	
	PFA200G	Gang Box Adapter	
	PFB200C	In-ceiling Mount	
	PFB203W	Wall Mount (Use alone or with PFA152-E Pole Mount)	
	DH-PFB203W-B	Wall Mount (Use alone or with PFA152-E-B Pole Mount)	
	PFB220C	Ceiling Mount (Use with PFA106 Mount Adapter)	
	PFB305W	Wall Mount	
	DH-PFM321D-US	12 VDC, 1 A Power Adapter	
	PC-H49-D90	Polycarbonate Smoke Tinted Bubble	

Accessories

Optional:









PFA106 Mount Adapter

PFA137 Junction Box

DH-PFA137-B Junction Box

PFA151 Corner Mount









DH-PFA151-B Corner Mount

PFA152-E Pole Mount

PFA200G DH-PFA152-E Pole Mount Gang Box Adapter









PFA200W Sun/Rain Shield

PFB203W Wall Mount

DH-PFB203W-B Wall Mount

PFB220C Ceiling Mount



PFB305W

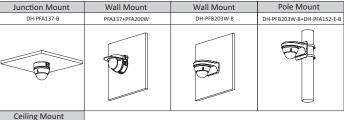
Wall Mount





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

PC-H49-D90 Polycarbonate Smoke Tinted Bubble





Dimensions 122.0 [4.8"] Ø122.0 [Ø4.8"] 88.9 [3.5"] Ø110.0 [Ø4.33"] 3-Ø4.5 [Ø0.18"]

