

4MP Enhanced Starlight Network Eyeball Camera

True Wide Dynamic Network Camera with Smart Motion Detection+



Wiz Sense

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 Enhanced Starlight Network Eyeball Camera is ideal for a host of diverse applications. The camera has Enhanced Starlight Technology, True Wide Dynamic Range, and IR illumination to allow the camera to operate in any lighting condition.

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.

AI Scene Self-adaptation (AI SSA)

AI SSA (AI Scene Self-adaptation) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced. No manual adjustments are required during initial setup or when scenes change such during as daylight savings when AI SSA is enabled.

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



Enhanced Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environment.

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.

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.

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.

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.



Lite Series | N43CG62

Technical Specification

rechnical Sp	ecilication				
Camera					
Image Sensor		1/3-in. 4MP CMOS			
Effective Pixels		2688(H) x 1520(V)			
RAM/ROM		512 MB/128 MB			
Scanning Systen	n	Progressive			
Electronic Shutt		1/3 s to 1/100,000 s			
Minimum Illumination		Color: 0.005 lux at F1.4 B/W: 0.0005 lux at F1.4 0 lux at F1.4(IR on)			
S/N Ratio		> 56 dB			
IR Distance		Up to 50.0 m (164.04 ft)			
IR On/Off Contro	ol	Auto, Manual			
IR LEDs		Two (2)			
Lens		. ,			
Lens Type		Fixed Focal			
Iris Type		Fixed Aperture			
Mount Type		M12			
Focal Length		2.8 mm			
Maximum Aper	ture	F1.6			
Angle of View		F1.0 Horizontal: 102° Vertical: 54° Diagonal: 121°			
Close Focus Dist	ance	0.70 m (2.30	0.70 m (2.30 ft)		
		Detect	Observe	Recognize	Identify
DORI Distance ¹		63.6 m (208.66 ft)	25.40 m (83.33 ft)	12.70 m (41.67 ft)	6.40 m (21.00 ft)
Installation Angle					
Range		Pan: 0° to 36 Tilt: 0° to 78 Rotation: 0°	•		
Video					
Compression		Al Coding, Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H, MJPEG (Sub Stream only)			
Streaming Capa	bility	Three (3) Streams			
Resolution		(1920 x 1080	D), 1.3MP (12	(2304 x 1296), 80 x 960), 720 6A (640 x 480)	p (1280
	Main Stream	4MP (2688 x 1520) at 30 fps			
Frame Rate	Sub Stream 1	D1 (704 x 48	D1 (704 x 480) at 30 fps		
	Sub Stream 2	1080p (1920 x 1080) at 30 fps			
Bit Rate Control		CBR/VBR			
Bit Rate		H.264: 3 Kbps to 8192 Kbps H.265: 3 Kbps to 8192 Kbps			
BLC Mode		BLC, HLC, Tr	ue WDR (120	dB), SSA	
White Balance		Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom			
Gain Control		Auto, Gain Priority, Shutter Priority, Manual			
Noise Reduction		3D DNR			
Motion Detection		Off, On (4 Zones, Rectangular)			
Image Rotation		0°, 90°, 180°, 270°			
Misson		0# 0*			

Off, On

Off, On (4 Areas, Rectangular)

Mirror

Privacy Masking

AudioBuilt-in MicrophoneYesCompressionG.711a, G.711Mu, G.726, PCM, G.723, AACNetworkEthernetEthernetRI-4S (10/100 Base-T)ProtocolIPv4, IPv6, HTTP, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, STP, DHCP, DNS, DDNS, CoS, UPNP, NPT, Muticast, ICMP, IGMP, NFS, SPPOE, B02.1x, SNMPInteroperabilityONVIF (Profile S, G and TJ, CGI, P2PAuto RegisterSupportStreaming MethodUnicast/MuticastMaximum User Access20 Users (Max. Bandwidth: 64 Mbps)Edge StorageNetwork Attached Storage (NAS), FTP, STP, SDC Card Stof (Max. 256 (GM)Web ViewerMicrosoft Edge, ChromeManagement SoftwareSmartPSS Lite, DSS, DMSSMobile Operating SystemIOS, AndroidCorfigration Encryption, Configration Encryption, Configration Encryption, Configration Encryption, Trusted Boot, Trusted Security, DSS, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing Syst. Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing Mathematication, Systag, HTTPS, B02.1x, Trusted Boot, Trusted EccuricalInterfaceSaster Saster Sast	Advanced Features	Smart IR, SSA, AFSA, AI SSA, Defog			
CompressionG.711a, G.711Mu, G.726, PCM, G.723, AACNetworkEthernetRI-45 (10/100 Base-T)EthernetRI-45 (10/100 Base-T)ProtocolProtocolInteroperabilityONVIF (Profile S, G and T), CGI, P2PAuto RegisterSupportStreaming MethodUnicast/MulticastMaximum User Access20 Users (Max. Bandwidth: 64 Mbps)Edge StorageNetwork Attached Storage (NAS), FTP, SFTP, DDCMobile Operating System105, AndroidMobile Operating System105, AndroidCybersecurityUsers (Max. 222 No. 62368-1:14)Electromagnetic Compatibility47 CFR FCC Part 15, Subpart BInteroface21 VUC or PoE (IEEE 802.3af)InterfaceSasi (120 C), 4.2 W (POE)Audio InputBasic: 3.3 W (12 VDC); 4.2 W (POE)Power ConsumptionL2 VDC or PoE (IEEE 802.3af)Environmental	Audio				
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EthernetRI-45 (10/100 Base-T)EthernetRI-45 (10/100 Base-T)ProtocolIPv4, IPv6, HTTP, HTTP5, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QOS, UPNP, NTP, Multicast, ICMP, IGMP, NFS, PPPO6, 802.1x, SNMPInteroperabilityONVIF (Profile S, G and T), CGI, P2PAuto RegisterSupportStreaming MethodUnicast/MulticastMaximum User Access20 Users (Max. Bandwidth: 64 Mbps)Edge StorageNetwork Attached Storage (NAS), FTP, SFTP, SD Card Stot (Max. 25G GB)Web ViewerMicrosoft Edge, ChromeManagement SoftwareSmartPSS Lite, DSS, DMSSMobile Operating SystemIOS, AndroidCybersecurityConfiguration Encryption, Digest, WSSE, Account Lockot, Paceurity Logs, IP/MAC Filtering, Security Cost, Trusted Boot, Trusted Execution, Trusted UpgradeCertificationsUL62368-1 CAN/CSA C22.2 No. 62368-1-14Electromagnetic Compatibility (EMC)47 CFR FCC Part 15, Subpart BInterfaceJudio InputAudio InputBuilt-In MicrophoneElectricalPower ConsumptionPower Consumption20° C to +60° C (-40° F to +140° F), Less than 95% RHStorage Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RHStorage Conditions121.90 mm x 99.10 mm (4.80 in. x 3.90 in.)Net Weight0.48 kg (1.06 lb)	Compression	G.711a, G.711Mu, G.726, PCM, G.723, AAC			
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Management SoftwareSmart PSS Lite, DSS, DMSSMobile Operating SystemIOS, AndroidMobile Operating SystemIOS, AndroidCybersecurityVideo Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.SO9 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted UpgradeCertificationsUL62368-1 CAN/CSA C22.2 No. 62368-1-14Electromagnetic Compatibility (EMC)47 CFR FCC Part 15, Subpart BInterfaceJulit-in MicrophoneAudio InputBuilt-in MicrophoneElectrical12 VDC or POE (IEEE 802.3af)Power Supply12 VDC or POE (IEEE 802.3af)Power ConsumptionPasic: 3.3 W (12 VDC); 4.2 W (POE) Max (WDR + IR intensity + Intelligence): 7.1 W (12 VDC); 7.9 W (POE)Environmental-40° C to +60° C (-40° F to +140° F), Less than 95% RHStorage Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RHIngress ProtectionIP67Environmental-40° C to +60° C (-40° F to +140° F), Less than 95% RHDimensions121.90 mm x 99.10 mm (4.80 in. x 3.90 in.)Net Weight0.48 kg (1.06 lb)	Edge Storage				
Mobile Operating SystemIOS, AndroidVideo Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted UpgradeCertificationsUL62368-1 CAN/CSA C22.2 No. 62368-1-14Electromagnetic Compatibility (EMC)47 CFR FCC Part 15, Subpart BInterfaceInterfaceAudio InputBuilt-in MicrophoneElectricalElectricalPower Supply12 VDC or PoE (IEEE 802.3af)Power ConsumptionBasic: 3.3 W (12 VDC); 4.2 W (PoE) Max. (WDR + IR intensity + Intelligence): 7.1 W (12 VDC); 7.9 W (PoE)Environmental-40° C to +60° C (-40° F to +140° F), Less than 95% RHStorage Conditions-40° C to +60° C (-40° F to +140° F) Less than 95% RHIngress ProtectionIP67Environmental21.90 mm x 99.10 mm (4.80 in. x 3.90 in.)Net Weight0.48 kg (1.06 lb)	Web Viewer	Microsoft Edge, Chrome			
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SafetyUL62368-1 CAN/CSA C22.2 No. 62368-1-14Electromagnetic Compatibility (EMC)47 CFR FCC Part 15, Subpart BInterfaceAudio InputBuilt-in MicrophoneElectricalPower Supply12 VDC or PoE (IEEE 802.3af)Power ConsumptionBasic: 3.3 W (12 VDC); 4.2 W (PoE) Max. (WDR + IR intensity + Intelligence): 7.1 W (12 VDC); 7.9 W (PoE)EnvironmentalOperating Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RHStorage Conditions-40° C to +60° C (-40° F to +140° F)Ingress ProtectionIP67EnvironmentalCasingMetalDimensions121.90 mm x 99.10 mm (4.80 in. x 3.90 in.)Net Weight0.48 kg (1.06 lb)	Cybersecurity	Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted			
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Ingress Protection IP67 Environmental Ketal Dimensions 121.90 mm x 99.10 mm (4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.06 lb)	Operating Conditions				
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Casing Metal Dimensions 121.90 mm x 99.10 mm (4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.06 lb)	Ingress Protection	IP67			
Dimensions 121.90 mm x 99.10 mm (4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.06 lb)	Environmental				
Dimensions (4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.06 lb)	Casing	Metal			
	Dimensions				
Gross Weight 0.66 kg (1.45 lb)	Net Weight	0.48 kg (1.06 lb)			
	Gross Weight	0.66 kg (1.45 lb)			

Lite Series | N43CG62

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 10 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. 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.	

Ordering Information

Туре	Part Number	Description
Camera	N43CG62	4MP Enhanced Starlight Network Eyeball Camera with Smart Motion Detection+
Accessories (Optional)	DH-PFA109	Mount Adapter
	PFA130-E	Junction Box
	PFA151	Corner Mount
	PFA152-E	Pole Mount
	DH-PFA200G	Gang Box Adapter
	PFB203W	Wall Mount
	PFB220C	Ceiling Mount
	PFB305W	Wall Mount
	PFA150	Pole Mount
	PFA137	Junction Box
	DH-PFM321D-US	12 VDC, 1 A Power Adapter

Accessories Optional:



1 100 10 PFA152-E

Pole Mount

PFB220C

Ceiling Mount

PFA137

Junction Box



PFA130-E Junction Box



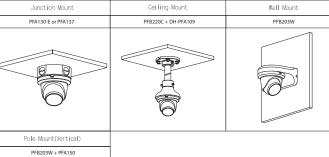
DH-PFA200G Gang Box Adapter



PFB305W Wall Mount

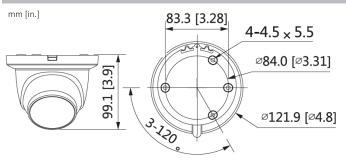


DH-PFM321D-US 12 VDC, 1 A Power Adapter





Dimensions



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. 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. 1.

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PFA151 Corner Mount



PFB203W Wall Mount



PFA150 Pole Mount