

4MP Enhanced Night Color Network Bullet Camera

True Wide Dynamic Range Fixed Lens Network Camera with Analytics+



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 Night Color camera offers Analytics+ functions at the edge – performing complex real-time perimeter protection. The Dahua Analytics+ algorithms significantly improve accuracy and reliability as compared to standard intelligent features. The camera is ideal for a host of diverse applications — Night Color and True Wide Dynamic Range allow the camera to operate in most lighting conditions and the IP67 rating makes the camera suitable for 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.

Enhanced Night Color Technology

The Enhanced Night Color camera incorporates white-light LEDs to offer full-color images in total darkness, as well as an effective visual deterrent. This technology provides smart illumination where the camera automatically activates the white-light illuminators when ambient light levels fall and adjusts exposure time and LED intensity to prevent overexposing the image.

- 1/2.7-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, 2.8 mm Fixed Lens
- True Wide Dynamic Range (120 dB)
- Enhanced Night Color Technology with High-performance Sensor and Large Aperture Lens
- White-light LEDs for Color Images in Total Darkness
- Analytics+ Functions Perimeter Protection and Smart Motion Detection+
- Built-in Microphone
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP67 Ingress Protection
- Five-year Warranty*

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.

True 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.

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.

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

Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

Lite Series | N43BB62

Technical Specification

Camera

Camera						
Image Sensor		1/2.7-in. 4MP	Progressive-	scan CMOS		
Effective Pixels		2688(H) x 1520(V)				
RAM/ROM		512 MB/128 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto, Manual	, 1/3 s to 1/10	00,000 s		
Minimum Illumination		Color: 0.003	Color: 0.003 lux at F1.0			
Illuminator Type		One (1) White-light LED				
Illumination Distance		30.0 m (98.43 ft)				
Illuminator Control		Auto, Manual				
S/N Ratio		Greater than	56 dB			
Lens						
Lens Type		Fixed-local				
Mount Type		M12				
Focal Length		2.8 mm				
Maximum Aperture		F1.0				
Angle of View		Horizontal: 103° Vertical: 53° Diagonal: 122°				
Iris Type		Fixed				
Focus Control		Fixed				
Close Focus Distance		1.20 m (47.24 in.)				
DORI ¹	Lens	Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)	
Distance	2.8 mm	56.0 m (183.70 ft)	22.40 m (73.50 ft)	11.20 m (36.70 ft)	5.60 m (18.40 ft)	
Installation	Angle					
Range		Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 360°				
Video						
Compression		Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H, MJPEG (sub stream only)				
Streaming Capability		Three (3) Streams				
Resolution		4MP (2688 x 1520), 3MP (2304 x 1296), 1080p (1920 x 1080), 1.3MP (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: D1 at 30 fps				
		Sub Stream 2: 720p at 30 fps				
Bit Rate Control		CBR/VBR				
Bit Rate		H.264: 3 Kbps to 8192 Kbps H.265: 3 Kbps to 8192 Kbps				
Day/Night		Color, B/W	Color, B/W			
BLC Mode		BLC, HLC, True WDR (120 dB), SSA				

 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.

White Balance	Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom
Gain Control	Auto, Manual, Gain Priority, Shutter Priority
Noise Reduction	3D DNR
Motion Detection	Off, On (4 Zones, Rectangular)
Region of Interest	Off, On (4 Zones)
Advanced Features	Defog, Smart Illumination
Flip	0°, 90°, 180°, 270°
Mirror	Off, On
Privacy Masking	Off, On (4 Areas)
Audio	
Compression	PCM, G.711A, G.711Mu, G.726
Network	
Ethernet	RJ-45 (10/100 Base-T)
Protocol	HTTP, HTTPS, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP, ICMP, IGMP, 802.1x
Interoperability	ONVIF Profile S, G, T; CGI, P2P
Auto Register	Support
Streaming Method	Unicast / Multicast
Maximum User Access	20 Users (total bandwidth: 64 MB)
Edge Storage	Network Attached Storage (NAS) FTP, SFTP Micro SD Slot, maximum 256 GB
Web Viewer	IE (Version 8 and higher), Chrome, Firefox
Management Software	DSS, DMSS
Mobile Operating System	IOS, Android
Cybersecurity	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	
Safety	UL60950-1 CAN/CSA C22.2 No.60950-1-07 EN62368-1
Electromagnetic Compatibility (EMC)	CFR 47 FCC Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30/EU
Interface	
Audio	Input: One (1) Channel + a Built-in Microphone Output: One (1) Channel
Alarm	Input: One (1) Channel (5 mA, 3 VDC to 5 VDC) Output: One (1) Channel (300 mA, 12 VDC)
Electrical	
Power Supply	12 VDC or PoE (IEEE 802.3af, Class 0)
Power Consumption	< 8.4 W

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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 (L x W x H)	192.70 mm x 70.50 mm x 66.40 (7.59 in. x 2.77 in. x 2.61 in.)
Net Weight	0.59 kg (1.30 lb)
Gross Weight	0.78 kg (1.72 lb)

Analytics+ Functions²

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 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.
Recommended Detection Distance	Human	Up to 10.0 m (32.81 ft)
	Vehicle	Up to 15.0 m (49.21 ft)

Intelligent Video System Functions

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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	
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 video.

Ordering Information Part Number Description Туре 4MP Enhanced Night Color Fixed Analytics+ Camera N43BB62 Lens Bullet Camera PFA130-E Waterproof Junction Box PFA122 Junction Box Corner Mount Mounting PFA151 (for use with PFA130-E junction box) Accessories, optional Pole Mount PFA152-E (for use with PFA130-E junction box) DH-PFM321D-US 12 VDC, 1 A Power Adapter Accessories

Optional:



Waterproof Junction

Box

PFA152-E

Pole Mount







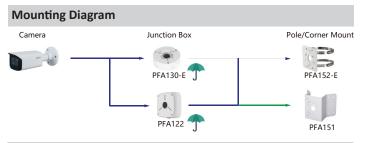




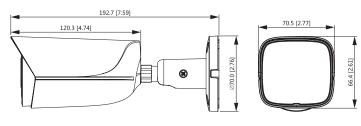
PFA151

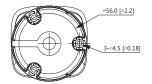
Corner Mount

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



Dimensions





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