

4MP Enhanced 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 security for small to medium size businesses at a sensible price.

System Overview

The Dahua 4MP Enhanced Starlight Network Bullet 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
- Al 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
- Al Scene Self-adaptation (Al 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 Enhanced Starlight Technology offers best-in-class light sensitivity, capturing color details in conditions 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.



Technical Specification						Advanced Fea	atures	Smart IR, AFSA, AI SSA, Defog, SSA
Camera						Audio		
Image Sensor		1/3-in. 4MP CMOS				Built-in Micro	phone	Yes
Effective Pixels		2688(H) x 1520(V)				Compression		G.711a, G.711Mu, G.726, PCM, G.723, AAC
RAM/ROM		512 MB/128 MB				Network	Network	
Scanning System		Progressive				Ethernet		RJ-45 (10/100 Base-T)
Electronic Shutter Speed		1/3 s to 1/100,000 s						IPv4, IPv6, HTTP, HTTPS, TCP, UDP, ARP, RTP, RTSP,
Minimum Illumination		Color: 0.005 lux at F1.4 B/W: 0.0005lux at F1.4 0 lux at F1.4(IR on)				Protocol		RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, PPPoE, 802.1x, SNMP
S/N Ratio		> 56 dB	i(iii oii)			Interoperabil	ity	ONVIF (Profile S, G and T), CGI, P2P
IR Distance		Up to 50.0 m (164.04 ft)				Auto Register		Support
IR On/Off Control		Auto, Manual				Streaming Me	ethod	Unicast/Multicast
IR LEDs		One (1)				Maximum Us	er Access	20 Users (Max. Bandwidth: 64 Mbps)
Lens		Circ (1)				Edge Storage		Network Attached Storage (NAS), FTP, SFTP, SD Card Slot (Max. 256 GB)
Lens Type		Fixed Focal				Web Viewer		Microsoft Edge, Chrome
Iris Type		Fixed Aperture				Management	Software	SmartPSS Lite, DSS, DMSS
Mount Type		M12				Mobile Opera	ating System	iOS, Android
Focal Length		2.8 mm						Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account
Maximum Aperture		F1.4 Horizontal: 107°				Cybersecurity	/	Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted
Angle of View		Vertical: 56° Diagonal: 127°				Certification	ons	Execution, Trusted Upgrade
Close Focus Distance		0.70 m (2.30 ft) Detect Observe Recognize Identify		Safety		UL62368-1 CAN/CSA C22.2 No. 62368-1-14		
DORI Distance ¹		63.6 m 25.40 m 12.70 m 6.40 m (208.66 ft) (83.33 ft) (41.67 ft) (21.00 ft)			Electromagne (EMC)	etic Compatibility	47 CFR FCC Part 15, Subpart B	
Installation	Angle					Interface		
Range		Pan: 0° to 30 Tilt: 0° to 90				merrace	Input	One (1) Channel, RCA plus a Built-in Microphone
		Rotation: 0°				Audio	Output	One (1) Channel, RCA
Video						Input	One (1) Channel (5 mA, 3 to 5 VDC)	
Communication		Al Coding, S	mart H.265+,	H.265, Smart	H.264+,	Alarm	Output	One (1) Channel (300 mA, 12 VDC)
Compression		H.264, H.264B, H.264H, MJPEG (Sub Stream only)			Electrical	Electrical		
Streaming Capability		Three (3) Streams				Power Supply	,	12 VDC or PoE (IEEE 802.3af)
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)				Power Consul		Basic: 3.8 W (12 VDC), 4.6 W (PoE) Maximum (WDR + IR intensity + Intelligence): 5.9 W (12 VDC), 7.2 W (PoE)
Frame Rate	Main Stream	4MP (2688 x 1520) at 30 fps				Environme	ental	
	Sub Stream 1	D1 (704 x 480) at 30 fps				2.1711 0111110		-40° C to +60° C (-40° F to +140° F),
	Sub Stream 2	1080p (1920	0 x 1080) at 3	0 fps		Operating Conditions		Less than 95% RH
Bit Rate Control		CBR/VBR				Storage Cond	itions	-40° C to +60° C (-40° F to +140° F)
Bit Rate		H.264: 3 Kbps to 8192 Kbps H.265: 3 Kbps to 8192 Kbps				Ingress Prote	ction	IP67
BLC Mode		BLC, HLC, True WDR (120 dB), SSA				Environme	ental	
White Balance		Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom				Casing		Metal 192.70 mm x 70.50 x 66.40 mm
Gain Control		Auto, Gain Priority, Shutter Priority, Manual				Dimensions		(7.59 in. x 2.77 in. x 2.61 in.)
Noise Reduction		3D DNR				Net Weight		0.59 kg (1.30 lb)
Motion Detection		Off, On (4 Zones, Rectangular)				Gross Weight		0.78 kg (1.72 lb)
Image Rotation		0°, 90°, 180°, 270°						
Mirror		Off, On						
Privacy Masking		Off, On (4 Areas, Rectangular)						

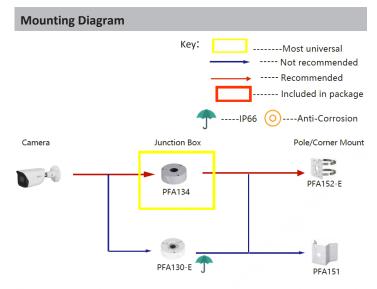
Analytics+ Functions

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.			

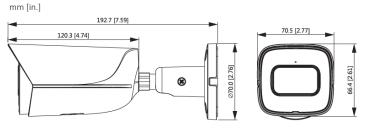
Ordering Information						
Туре	Part Number	Description				
Camera	N43CB62	4MP Enhanced Starlight Network Bullet Camera with Smart Motion Detection+				
	PFA130-E	Junction Box				
	PFA151	Corner Mount				
Accessories (Optional)	PFA152-E	Pole Mount				
. , ,	DH-PFA143	Outdoor Security Junction Box				
	DH-PFM321D-US	12 VDC, 1 A Power Adapter				

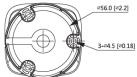


For all possible accessory combinations for this camera, please scan or click the QR code below to go to our accessory selector



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.