

4MP Fixed Bullet Network Camera

True Wide Dynamic Range IR Network Camera





• 1/3-in. 4MP Progressive-scan CMOS Sensor

- Dual Stream Encoding
- Smart H.265+ and Smart H.264+ Dual Codecs
- 4MP at 20 fps Maximum Resolution, 2.8 mm Fixed Lens
- Starlight Technology for Low Light Sensitivity
- True WDR (120 dB) and Day/Night (ICR)
- Maximum IR LED Length 30 m (98.43 ft) with Smart IR
- Intelligent Video System
- ArcticPro Series Camera Operational down to -40° C (-40°)
- IP67 Ingress Protection
- Five-year Warranty*





The Dahua 4MP Lite Series cameras offer high-resolution video and cutting-edge technology in a compact and accessible package. The cameras feature Smart H.265+ video compression, reducing bandwidth and storage requirements without sacrificing video quality. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Basic Starlight Technology offers best-in-class light sensitivity, capturing details in low light down to 0.008 lux. 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 (WDR)

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.













Intelligent Video System

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations and intrusion detection. A camera with IVS quickly and accurately responds to monitoring events in a specific area and offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Smart IR Technology

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of the camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high-performance in extreme low-light environments up to 30 m (98.43 ft).

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°F (-40°C) 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 and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Technical Specification						White Balance	Auto, Natural, Street Lamp, Outdoor, Manual,
Camera	Camera					Willie Buildings	Regional Custom
Image Sensor		1/3-in. 4MP Progressive-scan CMOS				Gain Control	Auto, Gain Priority, Shutter Priority, Manual
Effective Pixels		2688(H) x 1520(V)				Noise Reduction	3D DNR
RAM/ROM		128 MB / 128 MB				Motion Detection	Off, On (4 Zones, Rectangle)
Scanning System		Progressive				Region of Interest	Off, On (4 Zones)
Electronic Shutter Speed		Auto, Manual; 1/3 s to 1/100000 s				Smart IR	Support
Minimum Illumination		Color: 0.008 lux at F1.6 0 lux at F1.6 with IR on				Digital Zoom	16x
IR Distance		Distance up to 30.0 m (98.43 ft)				Image Rotation	0°, 90°, 180°, 270°
IR On/Off Control		Auto, Manual				-	
IR LEDs	IR LEDs					Mirror	Off, On
Lens						Privacy Masking	Off, On (4 Areas, Rectangle)
Lens Type		Fixed-focal				Network	
Iris Type		Fixed Apertur	e			Ethernet	RJ-45 (10/100 Base-T)
Mount Type Focal Length		M12 2.8 mm				Protocol	HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP, Bonjour, 802.1x, Multicast, ICMP,
Maximum Aperture		F1.6					IGMP, SNMP
Field of View		Horizontal: 102.0° Vertical: 55.0°				Interoperability Auto Register	ONVIF (Profile S, G, T), CGI, P2P Support
Close Focus Distance		Diagonal: 121.1°				_	
Close Focus L	istance	0.90 m (2.95 f	Observe	Recognize	Identify	Streaming Method	Unicast, Multicast
DORI ²	Lens	(8 ppf)	(19 ppf)	(38 ppf)	(76 ppf)	Max. User Access	20
Distance	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)	Edge Storage	Network Attached Storage (NAS) FTP, SFTP Micro SD Card slot (maximum 256 GB)
Pan/Tilt/Rotation						Web Viewer	IE, Chrome, Firefox
Range		Pan: 0° to 360° Tilt: 0° to 90°				Management Software	Smart PSS, DSS, DMSS
Vidaa		Rotation: 0° to	360			Mobile Operating System	IOS, Android
Video Compression		Smart H.265+, H.265, Smart H.264+, H.264, H.264B, MJPEG					Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS,
Streaming Capability		Two (2) Streams				Cybersecurity	
Resolution		2688 x 1520, 2560 x 1440, 2304 x 1296, 1080p (1920 x 1080), 1.3MP (1280 x 960), 720p (1280 x 720), D1 (704 x 480), VGA (640 x 480),				Certifications	802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade
		CIF (352 x 240)				Certifications	UL60950-1
Frame Rate	Main Stream	2688 x 1520 at 20 fps or 2560 x 1440 at 30 fps				Safety	CAN/CSA C22.2 No.60950-1-07 EN 60950-1
	Sub Stream	D1 (704 x 480) at 30 fps			Electromagnetic Compatibility (EMC)	FCC CFR 47 Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30/EU
Bit Rate Control		CBR/VBR				Electrical	
Bit Rate		H.264: 32 K to 6144 Kbps H.265: 12 K to 6144 Kbps				Power Supply	12 VDC ± 30%, or PoE (IEEE802.3af Class 0)
Day/Night		Auto (ICR), Color, B/W				Power Consumption	< 5 W
Backlight		BLC, HLC, True WDR (120 dB)				. Street Consumption	

Lite Series | N42BD32

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

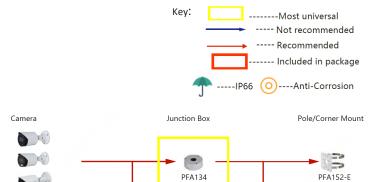
Casing	Metal
Dimensions	166.20 mm x Ø70.0 mm (6.54 in. x Ø2.76 in.)
Net Weight	0.48 kg (1.10 lb)
Gross Weight	0.57 kg (1.30 lb)

Core Analytics

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

magers 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. 			
Premium Features				
Tripwire	A target crosses a user-defined line.			
Intrusion	A target enters or exits a defined perimeter.			

Mounting Diagram



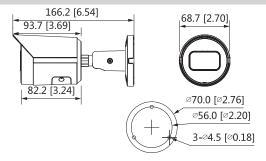
PFA130-E PFA151

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

DH-PFA3300R



Dimensions (mm/inch)



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.

