

4MP Fixed Bullet Network Camera

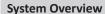
True Wide Dynamic Range IR Network Camera



- 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					Willie Bulance	Regional Custom	
Image Sensor	r	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 Syst	tem	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 l 0 lux at F1.6 v				Digital Zoom	16x
IR Distance		Distance up to	o 30.0 m (98.4	3 ft)		-	
IR On/Off Control		Auto, Manual				Image Rotation	0°, 90°, 180°, 270°
IR LEDs		One (1)				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		M12				Protocol	HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP, Bonjour, 802.1x, Multicast, ICMP,
Focal Length		2.8 mm					
Maximum Ap	erture	F1.6				Interoperability	IGMP, SNMP ONVIF (Profile S, G, T), CGI, P2P
Field of View		Horizontal: 10 Vertical: 55.0				Auto Register	Support
		Diagonal: 121					
Close Focus Distance		0.90 m (2.95 f		Doogonia	I do matific	Streaming Method	Unicast, Multicast
DORI ²	Lens	Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (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
\r. 1		Rotation: 0° to	0 300			Mobile Operating System	IOS, Android
Video Compression Smart H.265+, H.265, Smart H.264+, H.264, H.264B, MJPEG			H.264B,	Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account			
Streaming Capability		Two (2) Strea	ms			Cybersecurity	Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade
ŭ , ,		,	2560 x 1440, 2	,			
Resolution		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)				Certifications	
Frama Rata	Main Stream	2688 x 1520 a 2560 x 1440 a				Safety	UL60950-1 CAN/CSA C22.2 No.60950-1-07 EN 60950-1
Frame Rate	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 H.265: 12 K to				Power Supply	12 VDC ± 30%, or PoE (IEEE802.3af Class 0)
Day/Night		Auto (ICR), Co	olor, B/W			Power Consumption	< 5 W
Backlight		BLC, HLC, True WDR (120 dB)				. over consumption	

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: • Tampering with the camera. • Error writing to an onboard Micro SD card. Standard Features • Error sending or receiving data over the network. • Unauthorized access to the camera. **Premium Features** Tripwire A target crosses a user-defined line.

A target enters or exits a defined perimeter.

Ordering Information

Intrusion

Туре	Part Number	Description
4MP Camera	N42BD32	4MP IR Bullet Network Camera, True WDR, 2.8 mm
	PFA134	Junction Box
	PFA151	Corner Mount (use with PFA134 Junction Box)
Accessories, optional	PFA152-E	Pole Mount (use with PFA134 Junction Box)
	DH-PFM321D-US	12 VDC, 1 A Power Adapter

Optional:

Accessories



PFA134

Junction Box

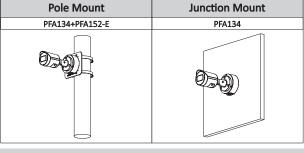




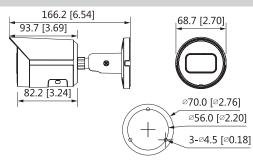




PFA151 DH-PFM321D-US Corner Mount Power Adapter



Dimensions (mm/inch)



^{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.

