

# 4 MP Fixed Eyeball Network Camera

True Wide Dynamic Range IR Network Camera





## **System Overview**

The Dahua 4 MP 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.

- 1/3-in. 4 MP Progressive-scan CMOS Sensor
- Dual Stream Encoding
- Smart H. 265+ and Smart H.264+ Dual Codecs
- 4 MP 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
- Built-in Microphone
- Intelligent Video System
- ArcticPro Series Camera Operational down to -40° C (-40°)
- IP67 Ingress Protection
- Five-year Warranty\*













#### 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  $-40^{\circ}\text{F}$  ( $-40^{\circ}\text{C}$ ) 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.

#### 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, Regional Custom		
Camera		1/2 in AAAR Drawnskin and CAACC				Gain Control	Auto, Gain Priority, Shutter Priority, Manual
Image Sensor Effective Pixels		1/3-in. 4 MP Progressive-scan CMOS 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					
Electronic Shutter Speed		Auto, Manual; 1/3 s to 1/100000 s				Region of Interest	Off, On (4 Zones)
Minimum Illumination		Color: 0.008 lux at F1.6 0 lux at F1.6 with IR on				Smart IR	Support
IR Distance		Distance up to 30.0 m (98.43 ft)				Digital Zoom	16x
IR On/Off Control		Auto, Manual		·		Image Rotation	0°, 90°, 180°, 270°
IR LEDs		Two (2)				Mirror	Off, On
Lens						Privacy Masking	Off, On (4 Areas, Rectangle)
Lens Type		Fixed-focal				Network	
Iris Type		Fixed Aperture				Ethernet	RJ-45 (10/100 Base-T)
Mount Type M12  Focal Length 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				1.00	IGMP, SNMP
Field of View		Horizontal: 102.0° Vertical: 55.0° Diagonal: 121.1°				Interoperability  Auto Register	ONVIF (Profile S, G, T), CGI, P2P, Milestone, Genetec Support
Close Focus Distance		0.90 m (2.95 ft)				Streaming Method	Unicast, Multicast
2	Lens	Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)	Max. User Access	20
DORI <sup>2</sup> 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 78°				Management Software	Smart PSS, DSS, DMSS
Vidoo		Rotation: 0° to	o 360°			Mobile Operating System	IOS, Android
Video		Smart H.265+, H.265, Smart H.264+, H.264, H.264B,				Audio	
Compression		MJPEG	mc			Compression	G.711A, G.711Mu, G.726, AAC
Streaming Capability		Two (2) Streams 2688 x 1520, 2560 x 1440, 2304 x 1296,				Input	Built-in Microphone
Resolution		1080p (1920 x 1080), 1.3 MP (1280 x 960), 720p (1280 x 720), D1 (704 x 480), VGA (640 x 480), CIF (352 x 240)				Certifications	
Frame Rate	Main	2688 x 1520 at 20 fps or				Safety	EN 60950-1
	Stream Sub Stream	2560 x 1440 at 30 fps				Electromagnetic Compatibility (EMC)	FCC CFR 47 Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30/EU
		,				Electrical	
Bit Rate Cont	li Ul	CBR/VBR H.264: 32 K to 6144 Kbps				Power Supply	12 VDC ± 30%, or PoE (IEEE802.3af Class 0)
Day/Night		H.265: 12 K to 6144 Kbps Auto (ICR), Color, B/W				Power Consumption	< 6.6 W
Backlight				3)			
Backlight		BLC, HLC, True WDR (120 dB)					

#### 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	Ø121.90 mm x 99.10 mm (Ø4.80 in. x 3.90 in.)
Net Weight	0.48 kg (1.10 lb)
Gross Weight	0.65 kg (1.40 lb)

# Core Analytics

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

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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.

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Туре	Part Number	Description
4 MP Camera	N42BJ62	4 MP IR Eyeball Network Camera, True WDR, 2.8 mm
	PFA130-E	Junction Box
Accessories, optional	PFA152-E	Pole Mount (use with PFA130-E or PFB203W)
	PFB203W	Wall Mount
	DH-PFM321D-US	12 VDC, 1 A Power Adapter

## **Accessories**

## Optional:







PFA152-E Pole Mount



PFB203W Wall Mount



Power Adapter

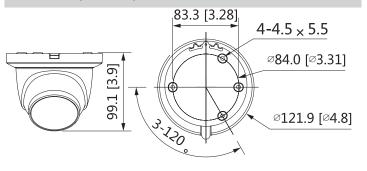
Junction Mount Wall Mount Pole Mount

PFA130-E

PFB203W

PFB152-E+PFA203W

# 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.

