

8 MP Fixed Dome Network Camera

True Wide Dynamic Range IR Network Camera





System Overview

The Dahua 8 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 0.009 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.

- 1/2.7-in. 8 MP Progressive-scan CMOS Sensor
- Dual Stream Encoding
- Smart H. 265+ and Smart H.264+ Dual Codecs
- 8 MP (3840 x 2160) at 15 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 and IK10 Vandal Resistance
- Five-year Warranty*













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

The camera complies with the IK10 Vandal Resistance impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.). Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications. Supporting a $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable power supply conditions.

Technical Specification				White Balance	Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom		
Camera		1/2.7 in 9 MD Progressive scan CMOS				Gain Control	Auto, Gain Priority, Shutter Priority, Manual
Image Sensor Effective Pixels		1/2.7-in. 8 MP Progressive-scan CMOS 3840(H) x 2160(V)				Noise Reduction	3D DNR
RAM/ROM		128 MB / 256				Motion Detection	Off, On (4 Zones, Rectangle)
Scanning System Progressiv							
Electronic Shutter Speed		Auto, Manual; 1/3 s to 1/100000 s				Region of Interest	Off, On (4 Zones)
Minimum Illumination		Color: 0.009 lux at F2.0 0 lux at F2.0 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		Three (3)				Mirror	Off, On
Lens						Privacy Masking	Off, On (4 Areas, Rectangle)
Lens Type		Fixed-focal				Network	
Iris Type		Fixed Aperture	e			Ethernet	RJ-45 (10/100 Base-T)
Mount Type	Mount Type M12			zu.c.met	HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP,		
Focal Length		2.8 mm				Protocol	FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SNMP
Maximum Aperture		F2.0				latara na na hilitu.	·
Field of View		Horizontal: 10 Vertical: 56° Diagonal: 125'				Interoperability Auto Register	ONVIF (Profile S, G, T), CGI, P2P, Milestone, Genetec Support
Close Focus Distance 1.0 m (3.30 ft)				Maximum User Access	20		
DORI ²	Lens	Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)	Streaming Method	Unicast, Multicast
Distance	2.8 mm	74.70 m (245.10 ft)	29.90 m (98.10 ft)	14.90 m (48.90 ft)	7.50 m (24.60 ft)		Network Attached Storage (NAS)
Pan/Tilt/Rotation		(245.10 ft) (98.10 ft) (24.60 ft)			(24.00 10)	Edge Storage	FTP, SFTP Micro SD Card slot (maximum 256 GB)
Pari/ Fill/ NOU	lation					Web Viewer	IE, Chrome, Firefox
Range		Pan: 0° to 355 Tilt: 0° to 65° Rotation: 0° to				Management Software	Smart PSS, DSS, DMSS
Video						Mobile Operating System	IOS, Android
Compression				H.264+, H.264,	H.264B,	Configuration Encryption, Dig Lockout, Security Logs, IP/MA	Video Encryption, Firmware Encryption,
Streaming Capa	ability	Two (2) Strear					Lockout, Security Logs, IP/MAC Filtering, Generating
Streaming capability		3840 x 2160, 3	3072 x 2048, 3	072 x 1728, 259 536), 2304 x 12	,	, ,	and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade
Resolution		1080p (1920 x	(1080), 1.3 MF	**		Certifications	
	Main	CIF (352 x 240) 3840 x 2160 at 15 fps or 2688 x 1520 at 30 fps				Safety	UL 60950-1 CAN/CSA C22.2 No.60950-1-07 EN 60950-1
Frame Rate	Stream Sub Stream	D1 (704 x 480)				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 Kbp H.265: 12 Kbp				Power Supply	12 VDC ± 30% or PoE (IEEE802.3af Class 0)
Day/Night		Auto (ICR), Co				Power Consumption	< 6.2 W
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	
Vandal Resistance	IK10	

Construction

Casing	Metal	
Dimensions	Ø109.90 mm x 81.0 mm (Ø4.33 in. x 3.19 in.)	
Net Weight	0.35 kg (0.77 lb)	
Gross Weight	0.49 kg (1.08 lb)	

Core Analytics

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

Ordering Information

Туре	Part Number	Description				
8 MP Camera	N82AL32	8 MP IR Eyeball Network Camera, True WDR, 2.8 mm				
	PFA106	Mount Adapter				
	PFA136	Junction Box				
	PFA152-E	Pole Mount (use with PFB203W Wall Mount)				
Accessories, optional	PFA200W	Sun/Rain Shield (use with PFA136 Junction Box)				
	PFB203W	Wall Mount				
	PFB220C	Ceiling Mount (use with PFA106 Mount Adapter)				
	DH-PFM321D-US	12 VDC, 1 A Power Adapter				

Accessories

Optional:















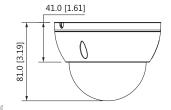


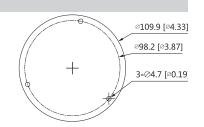




DH-PFM321D-US Power Adapter

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.



Junction Mount Wall Mount Pole Mount
PFA136
PFA136+PFA200W
PFB203W
PFB203W
PFB203W+PFA152-E

Ceiling Mount
PFA106+PFB220C