

4 MP Fixed Bullet 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
- 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° 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.

Environmental

Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.



Lite Series | N42BD32

Technical Specification

Garriera					
Image Sensor		1/3-in. 4 MP Progressive-scan CMOS			
Effective Pixels		2688(H) x 1520(V)			
RAM/ROM		128 MB / 128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto, Manual; 1/3 s to 1/100000 s			
Minimum Illumination		Color: 0.008 lux at F1.6 0 lux at F1.6 with IR on			
IR Distance		Distance up to 30.0 m (98.43 ft)			
IR On/Off Control		Auto, Manual			
IR LEDs		One (1)			
Lens					
Lens Type		Fixed-focal			
Iris Type		Fixed Aperture			
Mount Type		M12			
Focal Length		2.8 mm			
Maximum Aperture		F1.6			
Field of View		Horizontal: 102.0° Vertical: 55.0° Diagonal: 121.1°			
Close Focus Distance		0.90 m (2.95 ft)			
DORI ² Distance	Lens	Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)
	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)

Pan/Tilt/Rotation

Range		Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 360°		
Video				
Compression		Smart H.265+, H.265, Smart H.264+, H.264, H.264B, MJPEG		
Streaming Capability		Two (2) Streams		
Resolution		2688 x 1520, 2560 x 1440, 2304 x 1296, 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)		
Frame Rate	Main Stream	2688 x 1520 at 20 fps or 2560 x 1440 at 30 fps		
	Sub Stream	D1 (704 x 480) at 30 fps		
Bit Rate Control		CBR/VBR		
Bit Rate		H.264: 32 K to 6144 Kbps H.265: 12 K to 6144 Kbps		
Day/Night		Auto (ICR), Color, B/W		
Backlight		BLC, HLC, True WDR (120 dB)		

Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom
Auto, Gain Priority, Shutter Priority, Manual
3D DNR
Off, On (4 Zones, Rectangle)
Off, On (4 Zones)
Support
16x
0°, 90°, 180°, 270°
Off, On
Off, On (4 Areas, Rectangle)
RJ-45 (10/100 Base-T)
HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SNMP
ONVIF (Profile S, G, T), CGI, P2P, Milestone, Genetec
Support
Unicast, Multicast
20
Network Attached Storage (NAS) FTP, SFTP Micro SD Card slot (maximum 256 GB)
IE, Chrome, Firefox
Smart PSS, DSS, DMSS
IOS, Android
UL60950-1 CAN/CSA C22.2 No.60950-1-07 EN 60950-1
FCC CFR 47 Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30/EU
12 VDC ± 30%, or PoE (IEEE802.3af Class 0)
< 5 W

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:

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
4 MP Camera	N42BD32	4 MP 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

Accessories

Optional:



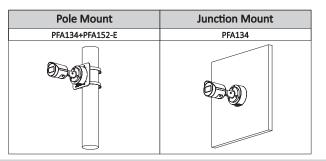


PFA134 Junction Box

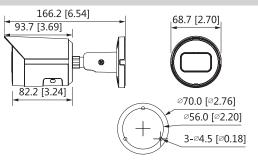
PFA152-E Pole Mount

PFA151 Corner Mount

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.

