

4MP WiFi Network Dome Camera (2.8 mm)

WiFi IR Camera with Smart Motion Detection



- 1/3-in. 4 MP Progressive-scan CMOS Sensor
- 4MP (2560 × 1440) at 20 fps Maximum Resolution
- 2.8 mm Fixed Lens
- 2.4 GHz WiFi (IEEE802.11b/g/n), up to 80 m (262.48 ft) range
- Smart H.265+ and Smart H.264+ Dual Codec
- True Day/Night (ICR)
- Smart Motion Detection
- Maximum IR Distance 30 m (98 ft)
- IP67 Ingress Protection and IK10 Vandal Protection
- Five-year Warranty*



System Overview

The N41BL13-W offers high-resolution video and WiFi connectivity in a compact and accessible package. The camera features 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

True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens.

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.

Smart Motion Detection (Human Detection Only)

Smart Motion Detection, a component of Dahua's Analytics+ technology, improves alarm accuracy and decreases the number of false alarms. The advanced SMD algorithm analyzes a scene for human motion, while filtering out other motion due to trees, leaves, animals, weather, and triggers an alarm when detected.

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.

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

The camera complies with an IK10 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 and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Lite Series | N41BL13-W

Technical Specification

Camera

Resolution

Frame Rate

Bit Rate Control

Video Bit Rate

White Balance

Gain Control

Mirror

WiFi

Noise Reduction

Motion Detection

Region of Interest (Rol)

Day/Night

BLC Mode

Main Stream

Sub Stream

Calliela					
Image Sensor		1/3-in. 4MP Progressive-scan CMOS			
Max. Resolution		2560 (H) × 1440 (V)			
RAM/ROM		64 MB / 16 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto, Manual, 1/3 s to 1/100,000 s			
Minimum Illumination		Color: 0.03 lux at F2.0(30 IRE) B/W : 0.003 lux at F2.0 (30 IRE) 0 lux (with illuminators on)			
S/N Ratio		Greater than 56 dB			
Illumination Distance		IR: 30 m (98.43 ft)			
Illuminator On/Off Control		Auto, Manual, Off			
Illuminator Number		Three (3) IR Lights			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm			
Maximum Aperture		F2.0			
Angle of View		Horizontal: 90° Vertical: 50° Diagonal: 107°			
Iris Type		Fixed			
Close Focus Distance		1.0 m (3.28 ft)			
DORI ¹ Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	68 m (223.10 ft)	27.2 m (89.24 ft)	13.6 m (44.62 ft)	6.8 m (22.31 ft)
Installation Angle					
Range		Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 360°			
Video					
Video Compression		Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H			
Stream Capability		Two (2) Streams			

4MP (2560 × 1440), 3MP (2304 × 1296), 1080p (1920 × 1080), 1.3MP (1280 × 960), 720p (1280 ×

Auto, Natural, Street Lamp, Outdoor, Manual,

Auto, Gain Priority, Shutter Priority, Manual

720), VGA (640 × 480), CIF (352 × 240)

2560 × 1440 at 20 fps

H.264: 24 kbps to 4096 kbps

H.265: 9 kbps to 4096 kbps

Off, On (4 Zones, Rectangular)

Auto (ICR), Color, B/W

BLC, HLC, Digital WDR

Regional Custom

Off, On (4 Zones)

3D NR

640 × 480 at 20 fps

CBR/VBR

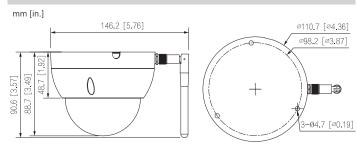
Network Protocol	IPv4, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, DHCP, DNS, NTP, Multicast				
Interoperability	ONVIF (Profile T, S, G), CGI, P2P, SDK, API				
User/Host	6 Users (Total Bandwidth: 36 Mbps)				
Edge Storage	MicroSD Card (Maximum 256 GB)				
Web Viewer	IE, Chrome, Firefox				
Management Software	SmartPSS Lite, DMSS				
Mobile Client	iOS, Android				
Certification					
CE	EN62368-1				
Radio Equipment Directive (RED)	Radio Equipment Directive 2014/53/EU				
Electromagnetic Compatability (EMC)	Electromagnetic Compatibility Directive 2014/30/EU				
FCC	47 CFR FCC Part 15, Subpart B FCC PART 15C				
Power					
Power Supply	12 VDC				
Power Consumption	Basic: 2 W Maximum (H.265 + IR Light): 4.9 W				
Environment					
Operating Temperature	-40 °C to 60 °C (-40 °F to 140 °F) Less than or equal to 95% RH				
Storage Temperature	-30 °C to 60 °C (-22 °F to 140 °F)				
Environmental Protection	IP67				
Vandal Protection	IK10				
Structure					
Casing	Metal				
Product Dimensions	Φ110.7 mm × 88.7 mm (Φ4.33 in. × 3.49 in.)				
Net Weight	414 g (0.91 lb)				
Gross Weight	592 g (1.31 lb)				
Analytics+ Functions					
Smart Motion Detection ²	 Differentiates between and classifies humans Filters false alarms due to leaves, lights, animals, and other inconsequential objects. Extracts humans from recorded video for quick target search and retrieval. 				
Intelligent Video System Functions					
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					
Motion	An object moves through any part of the scene.				

Lite Series | N41BL13-W

Ordering Information					
Туре	Model	Description			
4MP Camera	N41BL13-W	4MP IR Fixed-focal WiFi Dome Network Camera			
Accessories	NBS05C120050VE	12V DC/0.5A Power Adapter			
	PFA136	Junction Box			
	PFB203W	Wall Mount			
	DH-PFA109 + PFB220C	Ceiling Mount			
	PFB203W + PFA152-E	Pole Mount			
	DH-PFM900-E	Integrated Mount Tester			
	DHI-TF-P100 Series	Micro SDCX Card			

Ceiling Mount Junction Mount Ceiling Mount PFA136 DH-PFA109 + PFB2200 No Accessory Wall Mount Pole Mount PFB203W + PFA152-E PFB203W

Dimensions



Accessories

Included



Power Adapter

Optional



PFA136 Junction Mount

PFB203W Wall Mount





PFB203W + PFA152-E Pole Mount



DH-PFM900-E Integrated Mount Tester





DHI-TF-P100 Series Micro SDCX Card

- 1. The DORI distance is a general proximity of distance helping to pinpoint the correct camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify.
- Pair a Smart Motion Detection camera with a Dahua recording device that also offers SMD functionality to take advantage of SMD alarm filtering and object classification when searching and playing back 2. recorded video.