

4MP Starlight Network Security System

Six (6) 4MP Eyeball Network Cameras (Black Housing) with One (1) 8-channel 4K NVR



System Overview

The Dahua Network Security System provides all the components to quickly install, configure, and employ a complete video security solution. The IP cameras offer the clarity of 4MP video, and the NVR offers built-in motion detection algorithms, alarm triggers, and customized recording modes. The NVR also features Plug and Play technology to connect quickly to cameras on the same network. Each component accepts a PoE power supply to facilitate installation.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Technology captures details in low light applications. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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. Working with IVS-enabled IP cameras, the NVR recognizes and records video that contains IVS data on all IP channels.

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate 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 ft).

4 MP Network Cameras

- 4MP (2560 x 1440) at 30 fps Maximum Resolution
- 2.8 mm Fixed Lens
- Maximum IR Length 30 m (98 ft) with Smart IR
- Starlight Technology for Ultra Low-light Applications
- Built-in Microphone
- Intelligent Video System
- IP67 Environmental Protection

4K Network Video Recorder

- 2 TB Pre-installed Had Disk Drive
- Supports Remote Configuration and Management of IP Cameras
- Smart H.265+ and Smart H.264+ Dual Codec
- Up to 8MP Resolution for Preview and Playback
- 80 Mbps Incoming Bandwidth

Flexible Recording

The NVR offers a variety of configurable recording options and schedules that saves disk space and active monitoring time. The NVR monitors incoming video and can be programmed to record if motion is detected or if an alarm is triggered. The NVR can also be programmed to record on a schedule or at different intervals. The recording options and schedules can be set for each individual camera or copied to all cameras.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Environmental

With a temperature range of -40° C to $+60^{\circ}$ C (-40° F to $+140^{\circ}$ F), the cameras are designed for extreme temperature environments. The cameras, subjected to rigorous dust and water immersion tests, are certified to the IP67 rating making them suitable for demanding outdoor applications.

The NVR features an operating temperature of-10° C to +55° C $(+14^{\circ} \text{ F to } +131^{\circ} \text{ F})$.

Technical Specification		
N42BJ62-B 4MP Network Camera		
Camera		
Image Sensor	1/3-in. CMOS	
Effective Pixels	2688 (H) x 1520 (V), 4MP	
ROM/RAM	128 MB / 128 MB	
Scanning System	Progressive	
Electronic Shutter Speed	Auto, Manual: 1/30 s to 1/100000 s	
Minimum Illumination	Color: 0.008 lux at F1.6 0 Lux with IR on	
IR Distance	Up to 30.0 m (98.43 ft)	
IR On/Off Control	Auto, Manual	
IR LEDs	Two (2)	
Lens		
Lens Type	Fixed-focal	
Mount Type	M12	
Focal Length	2.8 mm	
Max Aperture	F1.6	
Angle of View	Horizontal: 102° Vertical: 55° Diagonal: 121°	
Iris	Fixed Aperture	
Close Focus Distance	0.90 m (2.95 ft)	

DORI¹ Distance

Detect	Observe	Recognize	Identify
(8 ppf)	(19 ppf)	(38 ppf)	(76 ppf)
56.0 m (183.73 ft)	22.40 m (73.49 ft)	11.20 m (36.75 ft)	5.60 m (18.37 ft)

Installation Angle

	Pan: 0° to 360°
Range	Tilt: 0° to 78°
	Rotation: 0° to 360°

Video

Compression		Smart H.265+, H.265, Smart H.264+, H.264, H.264B MJPEG (sub stream only)	
Streaming Capa	ability	Two (2) Streams	
Resolution		4 MP (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 ×480), CIF (352 x 240)	
Frame Rate	Main Stream	2688 x 1520 at 20 fps or 2560 x 1440 at 30 fps	
riallie Kate	Sub Stream	D1 (704 x 480) at 30 fps	
Bit Rate Contro	l	CBR, VBR	
Day/Night		Auto (ICR), Color, B/W	
BLC Mode		BLC, HLC, True WDR (120 dB)	
White Balance		Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom	
Gain Control		Auto, Gain Priority, Shutter Priority, Manual	
Noise Reductio	n	3D DNR	

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.

Motion Detection	Off, On (4 Zones, rectangular)
Region of Interest	Off, On (4 Zones)
Smart IR	Auto, Manual
Digital Zoom	16x
Flip	0°, 90°, 180°, 270°
Mirror	Off, On
Privacy Masking	Off, On (4 Areas, rectangular)
Network	
Ethernet	RJ-45 (10/100 Base-T)
Protocol	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
Interoperability	ONVIF (Profile S, G, T), CGI, P2P
Auto Register	Support
Streaming Method	Unicast, Multicast
Maximum User Access	20 Users /20 Hosts
Edge Storage	Network Attached Storage (NAS), FTP, SFTP, Micro SD Card slot (maximum 256 GB)
Web Viewer	IE, Chrome, Firefox
Management Software	Smart PSS, DSS, DMSS
Mobile Operating System	IOS, Android
Audio	
Input	Built-in Microphone
Audio Compression	G.711A, G.711Mu, G.726
Certifications	
Safety	EN 60950-1
Electromagnetic Compatibility (EMC)	CFR 47 FCC Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30/EU
Electrical	
Power Supply	12 VDC or PoE (IEEE802.3af, Class 0)
Power Consumption	< 6.6 W
Environmental	
Operating Conditions	-40° C to $+60^{\circ}$ C (-40° F to $+140^{\circ}$ 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 × 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)
Intelligence	

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

Technical S	pecification		Third-party Support		
N41C2P2 4K NVR		Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek,		
System				and others	
Main Processo	r	Industrial-grade Embedded Processor	Network		
Operating Syst	em	Embedded Linux	Ethernet	One (1) RJ-45 Port (10/100 Mbps), Self-adaptive	
Audio and '	Video		PoE	Eight (8) Ports (IEEE802.3af/at)	
IP Camera Inpu	ut	Eight (8) Channels		HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera; DVR; NVS); P2P; Auto register	
Audio		Input: One (1) Channel, RCA Output: One (1) Channel, RCA	Network Function		
Analytics+ I	Recording ²		Maximum User Access	128	
Perimeter	Channels	Eight (8)	Mobile Operating System	IOS, Android	
Protection	Search	By channel, time, event type	Browser	Chrome, IE 9 or later	
	Channels	Eight (8)	Interoperability	ONVIF Profiles S,T,G; CGI, SDK	
SMD+	Search	By target classification (human or vehicle)	Storage		
Display	Search	by target classification (fruman or vehicle)	Internal HDD	One (1) SATA III Port, Up to 10 TB capacity per HDD (Ships with a pre-installed 2 TB HDD)	
Interface		One (1) HDMI One (1) VGA	HDD Mode	Single	
Native Output	Resolution	3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720	Auxiliary Interface		
	le.	Two (2) Channel of 8 MP at 30 fps	USB	Two (2) USB 2.0 Ports (rear panel)	
Maximum Dec	oding	Four (4) Channels of 4 MP at 30 fps Eight (8) Channels of 2 MP at 30 fps	Electrical		
Multi-screen D	isplay	1/4/8/9	Power Supply	53 VDC, 1.36 A	
On-screen Disp	olay	Camera Title, Time, Video Loss, Camera Lock,	NVR Power Consumption	< 10 W, without HDD	
Motion Detection, Recording		Motion Detection, Recording	Total PoE Budget	25.5 W single port, 72 W total	
Recording		Environmental			
Video Compression		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Operating Conditions	-10° C to +50° C (+14° F to +122° F), 10% to 93% RH	
Audio Compression		PCM, G.711A, G.711Mu, G.726	Storage Conditions	0° C to +40° C (32° F to 104° F), 30% to 85% RH	
Supported IP Camera Resolution		8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1	-		
Maximum Recording Bandwidth 80 Mbps		80 Mbps	Construction		
Record Mode		Manual Recording; Alarm Recording; SMD Recording; Smart Recording	Dimensions (W x L x H)	270.0 mm x 206.50 mm x 47.50 mm (10.63 in. x 8.12 in. x 1.80 in.)	
Video Dete	ction and Alarn	n	Net Weight	0.70 kg (1.54 lb), without HDD	
Carranal Alama		Motion detection, privacy masking, video loss, scene	Gross Weight	1.80 kg (3.97 lb), without HDD	
General Alarm	5	changing, PIR alarm, IPC external alarm	Certifications		
Anomaly Alarr	ms	Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cybersecurity exception	Safety	EN62368-1 UL 62368-1 CAN/CSA C22.2 No.62368-1-14	
Analytics+ Alarms		Face detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and SMD alarms	Electromagnetic Compatibility	CFR 47 FCC Part 15 Subpart B EN55032, EN55024, EN55035, EN61000-3-2,	
Alarm Actions		Recording, snapshot, audio, buzzer, log, preset, and email	(EMC)	EN61000-3-3, EN50130-4	
Playback ar	nd Backup				
Sync Playback 1/4/8		1/4/8			
Search Mode		Time/Date, Alarm, MD and Exact Search (accurate to one second), Smart Search			
Playback Funct	tion	Play, Pause, Stop, Rewind, Fast Play, Slow Play, Reverse, By Frame, Full Screen, Backup Selection (video clip or file), Partial Zoom, Audio On/Off			
Backup Mode		USB Device, Network			

The recorder Analytics+ functions are available only when connected to a Dahua network camera with Analytics+ functionality.

Ordering Information			
Туре	Part Number Description		
	NB484E62B		
4MP Network Security System	• N42BJ62-B	4MP IR Eyeball Network Cameras, Black Housing (x6)	
	• N41C2P2	8-channel 4K NVR, 2 TB (x1)	
Camera Accessories, optional	DH-PFA130-E-B	Junction Box, black (For use alone)	
	DH-PFA151-B	Corner Mount, black (For use with DH-PFB203W-B wall mount)	
	DH-PFA152-E-B	Pole Mount, black (For use with DH-PFB203W-B wall mount)	
	DH-PFB203W-B	Wall Mount, black (For use alone or with DH-PFA152-E-B)	
	DH-PFM321D-US	12 VDC, 1 A Power Adapter	

Package Cor	ntents (indivi	dual devices shin	with the following:)
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Product	Material
Network Cameras	Printed Manual Printed Regulatory Guide Plastic Wall Anchors with Screws (x3) Mounting Template Waterproof Ethernet Connector
Storage Device	Quick Network Guide Printed Manual Printed Regulatory Guide Mouse Power Adapter with Power Cord Ethernet Cable, RJ-45 Rubber Feet (x4)

Camera Accessories

Optional:



DH-PFA130-E-B Waterproof Junction Box



DH-PFA151-B Corner Mount



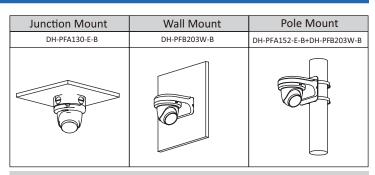
DH-PFA152-E-B Pole Mount



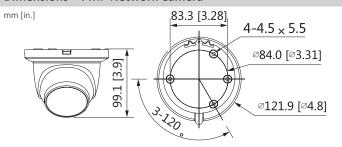
DH-PFB203W-B Wall Mount



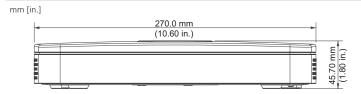
DH-PFM321D-US Power Adapter

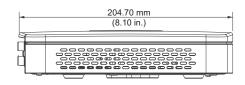


Dimensions - 4 MP Network Camera

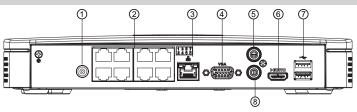


Dimensions - 4K NVR





Rear Panel - 4K NVR



1	Power Input	5	Audio Out, RCA
2	PoE Ports, RJ-45 (x8)	6	HDMI Output
3	Network Port, RJ-45	7	USB 2.0 Ports (x2)
4	VGA Output	8	MIC In, RCA

