

4MP Starlight Network Security System

Six (6) 4 MP Eyeball Network Cameras 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 surveillance solution. The IP cameras offer the clarity of 4 MP 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 low light Technology offers best-in-class light sensitivity, capturing 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

- 4 MP (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 Hard Disk Drive
- Supports Remote Configuration and Management of IP Cameras
- Smart H.265+ and Smart H.264+ Dual Codec
- Up to 8 MP 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° C (-40° F to +140° 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° F to +131° F).

Interoperability

The camera and NVR conform to the ONVIF (Open Network Video Interface Forum) specification, ensuring interoperability between network video products regardless of manufacturer.

Technical Specification				Motion Detection	Off, On (4 Zones, rectangular)
N42BJ62 4 MP Network Camera				Region of Interest	Off, On (4 Zones)
Camera					
Image Sensor	1/3-in. CMOS			Smart IR	Auto, Manual
Effective Pixels	2688 (H) x 1520 (V), 4 MP			Digital Zoom	16x
ROM/RAM	128 MB / 128 MB			Flip	0°, 90°, 180°, 270°
Scanning System	Progressive			Mirror	Off, On
Electronic Shutter Speed	Auto, Manual: 1/30 s to 1/100000 s			Privacy Masking	Off, On (4 Areas, rectangular)
Minimum Illumination	Color: 0.008 lux at F1.6 0 Lux with IR on			Network	
IR Distance	Up to 30.0 m (98.43 ft)			Ethernet	RJ-45 (10/100 Base-T)
IR On/Off Control	Auto, Manual			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
IR LEDs	Two (2)			Interoperability	ONVIF (Profile S, G, T), CGI, P2P, Milestone, Genetec
Lens					
Lens Type	Fixed-focal			Auto Register	Support
Mount Type	M12			Streaming Method	Unicast, Multicast
Focal Length	2.8 mm			Maximum User Access	20 Users /20 Hosts
Max Aperture	F1.6			Edge Storage	Network Attached Storage (NAS), FTP, SFTP, Micro SD Card slot (maximum 256 GB)
Angle of View	Horizontal: 102° Vertical: 55° Diagonal: 121°			Web Viewer	IE, Chrome, Firefox
Iris	Fixed Aperture			Management Software	Smart PSS, DSS, DMSS
Close Focus Distance	0.90 m (2.95 ft)			Mobile Operating System	iOS, Android
DORI¹ Distance					
Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)	Audio	
56.0 m (183.73 ft)	22.40 m (73.49 ft)	11.20 m (36.75 ft)	5.60 m (18.37 ft)	Input	Built-in Microphone
Installation Angle					
Range	Pan: 0° to 360° Tilt: 0° to 78° Rotation: 0° to 360°			Audio Compression	G.711A, G.711Mu, G.726
Video				Certifications	
Compression	Smart H.265+, H.265, Smart H.264+, H.264, H.264B MJPEG (sub stream only)			Safety	EN 60950-1
Streaming Capability	Two (2) Streams			Electromagnetic Compatibility (EMC)	CFR 47 FCC Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30/EU
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 x 480), CIF (352 x 240)			Electrical	
Frame Rate	Main Stream Sub Stream	2688 x 1520 at 20 fps or 2560 x 1440 at 30 fps D1 (704 x 480) at 30 fps		Power Supply	12 VDC or PoE (IEEE802.3af, Class 0)
Bit Rate Control	CBR, VBR			Power Consumption	< 6.6 W
Day/Night	Auto (ICR), Color, B/W			Environmental	
BLC Mode	BLC, HLC, True WDR (120 dB)			Operating Conditions	-40° C to +60° C (-40° F to +140° F), Less than 95% RH
White Balance	Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom			Storage Conditions	-40° C to +60° C (-40° F to +140° F)
Gain Control	Auto, Gain Priority, Shutter Priority, Manual			Ingress Protection	IP67
Noise Reduction	3D DNR			Construction	
Intelligence					
IVS triggers an alarm and takes a defined action for the following events:				Standard Features	<ul style="list-style-type: none"> 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.

1. 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.

Technical Specification			Third-party Support
N41C2P2 4K NVR			Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and others
System			
Main Processor	Industrial-grade Embedded Processor		
Operating System	Embedded Linux		
Audio and Video			
IP Camera Input	Eight (8) Channels		
Audio	Input: One (1) Channel, RCA Output: One (1) Channel, RCA		
Analytics+ Recording ²			
Perimeter Protection	Channels	Eight (8)	
	Search	By channel, time, event type	
SMD+	Channels	Eight (8)	
	Search	By target classification (human or vehicle)	
Display			
Interface	One (1) HDMI One (1) VGA		
Native Output Resolution	3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720		
Maximum Decoding	Two (2) Channel of 8 MP at 30 fps Four (4) Channels of 4 MP at 30 fps Eight (8) Channels of 2 MP at 30 fps		
Multi-screen Display	1/4/8/9		
On-screen Display	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording		
Recording			
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG		
Audio Compression	PCM, G.711A, G.711Mu, G.726		
Supported IP Camera Resolution	8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p, D1		
Maximum Recording Bandwidth	80 Mbps		
Record Mode	Manual Recording; Alarm Recording; SMD Recording; Smart Recording		
Video Detection and Alarm			
General Alarms	Motion detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarm		
Anomaly Alarms	Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cybersecurity exception		
Analytics+ Alarms	Face detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and SMD alarms		
Alarm Actions	Recording, snapshot, audio, buzzer, log, preset, and email		
Playback and Backup			
Sync Playback	1/4/8		
Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to one second), Smart Search		
Playback Function	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		
Third-party Support			
Third-party Support			
Network			
Ethernet	One (1) RJ-45 Port (10/100 Mbps), Self-adaptive		
PoE	Eight (8) Ports (IEEE802.3af/at)		
Network Function	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		
Maximum User Access	128		
Mobile Operating System	iOS, Android		
Browser	Chrome, IE 9 or later		
Interoperability	ONVIF Profiles S,T,G; CGI, SDK		
Storage			
Internal HDD	One (1) SATA III Port, Up to 10 TB capacity per HDD (Ships with a pre-installed 2 TB HDD)		
HDD Mode	Single		
Auxiliary Interface			
USB	Two (2) USB 2.0 Ports (rear panel)		
Electrical			
Power Supply	53 VDC, 1.36 A		
NVR Power Consumption	< 10 W, without HDD		
Total PoE Budget	25.5 W single port, 72 W total		
Environmental			
Operating Conditions	−10° C to +50° C (+14° F to +122° F), 10% to 93% RH		
Storage Conditions	0° C to +40° C (32° F to 104° F), 30% to 85% RH		
Construction			
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.)		
Net Weight	0.70 kg (1.54 lb), without HDD		
Gross Weight	1.80 kg (3.97 lb), without HDD		
Certifications			
Safety	EN62368-1 UL 62368-1 CAN/CSA C22.2 No.62368-1-14		
Electromagnetic Compatibility (EMC)	CFR 47 FCC Part 15 Subpart B EN55032, EN55024, EN55035, EN61000-3-2, EN61000-3-3, EN50130-4		

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

Ordering Information

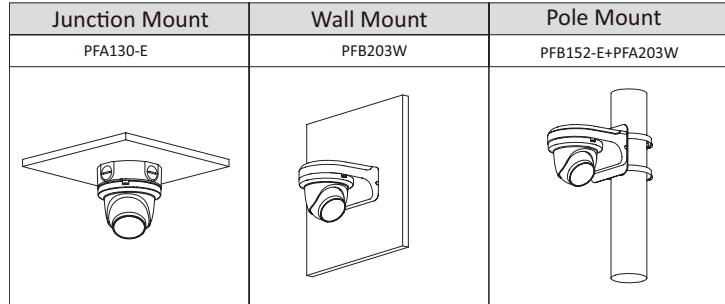
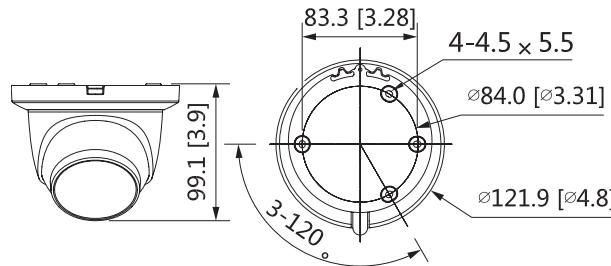
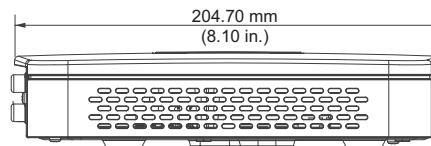
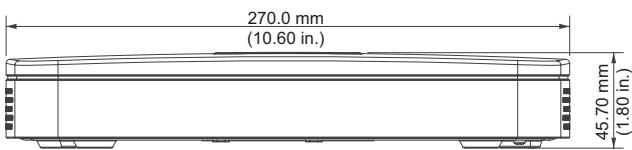
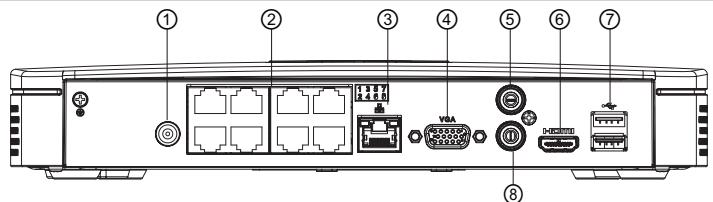
Type	Part Number	Description
4 MP Network Security System	N484E62B	
	• N42BJ62	4 MP IR Eyeball Network Cameras (x6)
	• N41C2P2	8-channel 4K NVR, 2 TB (x1)
Camera Accessories, optional	PFA130-E	Junction Box (For use alone)
	PFA152-E	Pole Mount (For use with PFB203W wall mount)
	PFB203W	Wall Mount (For use alone or with PFA152-E)
	DH-PFM321D-US	12 VDC, 1 A Power Adapter

Package Contents (individual devices ship with the following:)

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:

PFA130-E
Junction BoxPFB203W
Wall MountPFA152-E
Pole MountDH-PFM321D-US
Power Adapter**Dimensions (mm/in.) - 4 MP Network Camera****Dimensions (mm/in.) - 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