

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, where a target crosses a user-defined line and the camera quickly and accurately responds by triggering an alarm. 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 Had Disk Drive
- Embedded Quad-core Processor
- H.265 and 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 $+60^\circ$ 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° 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.

N42BJ62 4 MP Ne	twork	Came	ra	
	LWOIK	Carrie	ai a	
Camera				
Image Sensor		1/3-in. CMOS		
Effective Pixels		2688 (H) x 1520 (V), 4 MP		
ROM/RAM		128 MB / 128 MB		
Scanning System		Progre	essive	
Electronic Shutter Speed	d	Auto, I	Manual: 1/30 s to 1/100	0000 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 (8 ppf)	Observ (19 ppi		Recognize (38 ppf)	Identify (76 ppf)
(0 pp1)	(13 hhi)		(20 pp1)	(, o bb1)

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

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 x1080), 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	
Frame Rate	Sub Stream	D1 (704 x 480) at 30 fps	
Bit Rate Control		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 Reduction		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, Milestone, Genetec
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, AAC
Certifications	
Safety	EN 60950-1
Electromagnetic Compatibility (EMC)	FCC CFR 47 Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30/EU
Electrical	
Power Supply	12 VDC or PoE (IEEE 802.3af, 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 de	efined 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.

Technical Specification		Video Detection and Alarm			
N41B2P2 4K NVR		Trigger Events	Recording, PTZ, Tour, Video Push, Email, Snapshot, Buzzer and Screen Tips		
System Main Processo	or	Quad-core Embedded Processor	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, and Tampering	
Operating Syst		Embedded LINUX	Playback and Backup		
Audio and	Video		Playback	1/4/9	
IP Camera Inp	ut	Eight (8) Channels	Coords Mada	Time/Date, Alarm, MD and Exact Search	
A 11	Input	One (1) Microphone, RCA	Search Mode	(accurate to 1 second), Smart Search	
Audio	Output	One (1) Channel, RCA, from Camera or Microphone	Playback Function	Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, and Digital Zoom	
Recording			Playback Function		
Compression		H.265, H.264	Backup Mode	USB Device/Network	
Supported IP (Resolution	Camera	8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, 1.3 MP, 720p, 960H, D1, CIF	Storage		
Maximum Rec	ording Rate	80 Mbps	Internal HDD	One (1) SATA III Port, up to 6 TB Unit ships with a pre-installed 2 TB HDD	
Bit Rate		16 Kbps to 20 Mbps per Channel	HDD Mode	Single	
Record Mode		Manual, Schedule (Regular, Continuos), Motion Detection, Tampering, Video Loss, Stop	Auxiliary Interface		
Record Interva	al	1 to 120 minutes (default: 60 minutes), Pre-record: 1 s to 30 s,	USB	Two (2) USB 2.0 Ports (1 front panel, 1 rear panel)	
Post-record: 10 s to 300 s		Electrical	Electrical		
Display		Power Supply	48 VDC, 1.5 A		
Interface		One (1) HDMI One (1) VGA	Power Consumption, NVR	< 8.3 W, without HDD	
Native Output	HDMI	3840 x 2160, 2560 x 1440, 1920 x 1080, 1280 x 1024, 1280 x 720	Total PoE Power	25.5 W single port, 80 W total	
Resolution	VGA	1920 x 1080, 1280 x 1024, 1280 x 720	Construction		
Maximum Dec	coding	 Two (2) Channels of 8 MP at 30 fps Four (4)Channels of 4 MP at 30 fps Eight (8) Channels of 1080p at 30 fps 	Dimensions	270.0 mm x 204.70 mm x 45.70 mm (10.60 in. x 8.10 in. x 1.80 in.)	
Multi-screen [Disnlav	1/4/8/9	Net Weight	0.65 kg (1.43 lb), without HDD	
Width Scienti	Jispidy		Gross Weight	1.80 kg (3.97 lb), without HDD	
On-screen Dis	play	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording	Environmental		
Network			Operating Conditions	-10° C to +55° C (+14° F to +131° F), 86 kpa to 106 kpa	
Interface		One (1) RJ45 (10/100 Mbps) Port	Storage Conditions	-20° C to +70° C (-4° F to +158° F),	
PoE Eight (8) Ports (IEEE 802.3af/at)		- 0% to 90% KH			
Network Function		HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, SNMP, IP Search (Support Dahua IP camera, DVR, NVS)	Certifications Safety	UL 60950-1, EN 60950-1	
Maximum User Access 128 Users			Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B, ANSI C63.4-2014 EN 55032, EN 50130-4	
Mobile Operating System		IOS, Android	Immunity	EN 55024	
Interoperabilit	Interoperability ONVIF 2.4, SDK, CGI		,		

Ordering Information			
Туре	Part Number Description		
4 MP Network Security System	N484E62S		
	• N42BJ62	4 MP IR Eyeball Network Cameras (x6)	
	• N41B2P2	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	

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, RJ45 Rubber Feet (x4)

Camera Accessories

Optional:







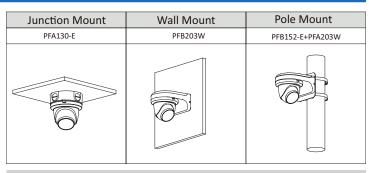
PFB203W Wall Mount



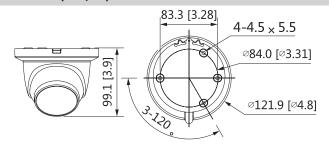
PFA152-E Pole Mount



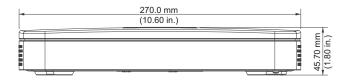
DH-PFM321D-US Power Adapter

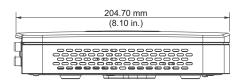


Dimensions (mm/in.) - 4 MP Network Camera

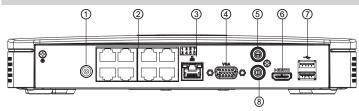


Dimensions (mm/in.) - 4K NVR





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 Ports (x2)
4	VGA Output	8	MIC In, RCA

