

4MP IP E-VU Security System

Six (6) 4MP Fixed Eyeball Network Cameras with One (1) Eight-Channel 4K Network Video Recorder



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 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

Smart IR Illumination

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).

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.

4MP Network Cameras

- 4MP at 30 fps Maximum Resolution,
- Maximum IR LED Length 30 m (98.43 ft) with Smart IR
- 2.8 mm fixed lens
- Motion Detection
- IP67 Ingress Protection

4K Network Video Recorder

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

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.

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).

Technical Specification

N41CJ02 4MP Fixed Eyeball Network Camera

Camera

Image Sensor	1/3-in. 4MP P	rogressive-sca	n CMOS	
Effective Pixels	2560 (H) × 1440 (V)			
RAM/ROM	64 MB / 16 M	В		
Scanning System	Progressive			
Electronic Shutter Speed	Auto, Manual; 1/3 s to 1/100000 s			
Minimum Illumination	,	0.03 lux at F2. 0.003 lux at F2. ator On)		
S/N Ratio	> 56 dB			
IR Distance	Distance up to	o 30.0 m (98.43	3 ft)	
IR On/Off Control	Auto, Manual			
IR LEDs	One (1)			
Lens				
Lens Type	Fixed-focal			
Iris Type	Fixed			
Mount Type	M12			
Focal Length	2.8 mm			
Maximum Aperture	F2.0			
Field of View	Horizontal: 90° Vertical: 50° Diagonal: 107°			
Close Focus Distance	1.0 m (3.28 ft)		
	Detect	Observe	Recognize	Identify
DORI ¹ Distance	68.0 m (223.10 ft)	27.2 m (89.24 ft)	13.6 m (44.62 ft)	6.8 m (22.31 ft)

Pan/Tilt/Rotation

Range		Pan: 0° to 355° Tilt: 0° to 78° Rotation: 0° to 355°	
Video			
Compression		Smart H.265+, H.265, Smart H.264+, H.264, H.264B, MJPEG	
Streaming Ca	pability	Two (2) Streams	
Resolution		4MP (2560 × 1440), 3MP (2304 × 1296), 1080p (1920 × 1080), 1.3MP (1280 × 960), 720p (1280 × 720), D1 (704 x 480), VGA (640 x 480), CIF (352 x 240)	
Frame Rate	Main Stream	2560 × 1440 at 1 to 30 fps	
Frame Rate	Sub Stream	704 × 480 at 1 to 30 fps	
Bit Rate Cont	rol	CBR/VBR	
Bit Rate		H.264: 32 kpbs to 4096 Kbps H.265: 12 kpbs to 4096 Kbps	
Day/Night		Auto (ICR), Color, B/W	
Backlight		BLC, HLC, DWDR	
White Balance		Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom	
Gain Control		Auto, Gain Priority, Shutter Priority, Manual	
Noise Reduction		3D DNR	
Motion Detection		Off, On (4 Zones, Rectangle)	
Region of Interest		Off, On (4 Zones)	
Smart IR		Support	
Image Rotation		0°, 180° (0°by defaultr)	
Mirror		Off, On	
Privacy Masking		Off, On (4 Areas)	

Network	
Ethernet	RJ-45 (10/100 Base-T)
Protocol	IPv4, IPv6, HTTP, TCP, UDP, ARP, RTIP, RTSP, SMTIP, FTIP, DHCP, DNS, DDNS, NTP, Multicast
Interoperability	ONVIF (Profile S,T), CGI, P2P, Milestone, SDK, API
Max. User Access	6 (Total Bandwidth: 48 MB)
Edge Storage	FTP
Web Viewer	IE, Chrome, Firefox
Management Software	SmartPSS Lite, DMSS
Mobile Operating System	iOS, Android
Cybersecurity	Video Encryption Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, Generating and Importing X.509 Certification, HTTPS, Trusted Boot, Trusted Execution, Trusted Upgrade
Certifications	
Safety	EN 62368-1
Electromagnetic Compatibility (EMC)	FCC CFR 47 Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30/EU
Electrical	
Power Supply	12 VDC or PoE (802.3af)
Power Consumption	Basic: 1.6 W (12 VDC), 2.4 W (PoE) Maximum (ICR + H.265 + IR Intensity): 3.6 W (12 VDC), 4.7 W (PoE)
Environmental	
Operating Conditions	-40°C to +55°C (-40°F to +131°F), Less than or equal to 95% RH
Storage Conditions	-40°C to +55°C (-40°F to +131°F),
Ingress Protection	IP67
Construction	
Casing	Metal
Dimensions	85.6 mm x 94.0mm (3.4 in. x 3.7 in.)
Net Weight	0.32 kg (0.71 lb)
Gross Weight	0.43 kg (0.95 lb)
Intelligent Video System	Functions
Standard Features	 Tampering with the camera. Error sending or receiving data over the network. Unauthorized access to the camera

Unauthorized access to the camera.

Motion
An object moves through any part of the scene.

 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

N41C2P2 Eight-channel 4K Network Video Recorder (2 TB)

System

,			
Main Processor		Industrial-grade Embedded Processor	
Operating System		Embedded Linux	
Audio and Video			
IP Camera Inpu	t	Eight (8) Channels	
Audio		Input: One (1) Channel, RCA Output: One (1) Channel, RCA	
Analytics+ Recording ²			
Perimeter	Channels	Eight (8)	
Protection	Search	By Channel, Time, and Event Type	
Smart Motion	Channels	Eight (8)	
Detection+	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		8MP, 6MP, 5MP, 4MP, 3MP, 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, Cybersecurity Exception
Analytics+ Alarms	Face Detection, Perimeter Protection (Intrusion and Tripwire), IVS, People Counting, Heat Map, SMD Alarms
Alarm Actions	Recording, Snapshot, Audio, Buzzer, Log, Preset, Email

Playback and Backup

Sync Playback	1/4/8
Search Mode	Time/Date, Alarm, MD and Exact Search (Accurate to One (1) 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

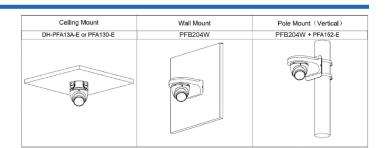
Third-party Support

Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and Others
Network	
Ethernet	One (1) RJ-45 Port (10/100/1000 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
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, 36 W total
Environmental	
Operating Conditions	-10° C to 55° C (14° F to 131° 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	EN 62368-1 UL 62368-1 CAN/CSA C22.2 No.62368-1-14
Electromagnetic Compatability (EMC)	CFR 47 FCC Part 15 Subpart B EN55032, EN55024, EN55035, EN61000-3-2, EN61000-3-3, EN50130-4

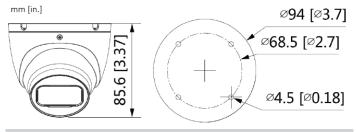
^{2.} The recorder Analytics+ functions are available only when connected to a Dahua network camera with Analytics+ functionality.

Kit | N484L62A

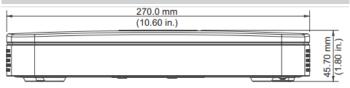
Ordering Information		
Туре	Part Number	Description
4MP IP E-VU Security System	N484L62A	 6 x N41CJ02 4MP Fixed Eyeball Network Camera 1 x N41C2P2 8-channel 4K Network Video Recorder with 2 TB HDD (Smart 1U Casing, 8 PoE Ports)
Accessories, optional	DH-PFA13A-E	Junction Box
	PFA130-E	Waterproof Junction Box
	PFB204W	Wall Mount Bracket
	PFA152-E	Pole Mount
	PFH101	Rack Mount Tray, compatible with 1U, Mini 1U, and Compact 1U Storage Devices 482.60 mm x 281.20 mm x 43.70 mm (19.0 in. x 11.07 in. x 1.72 in.)

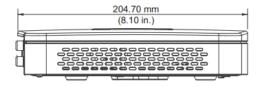


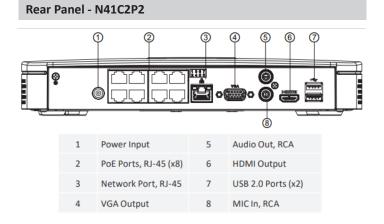
Dimensions - N41CJ02



Dimensions - N41C2P2







Package Contents

Туре	Material
Network Cameras	Printed Manual Printed Regulatory Guide Plastic Wall Anchors with Screws (x3) Mounting Template Waterproof Ethernet Connector
4K NVR	Quick Network Guide Printed Manual Printed Regulatory Guide Mouse Power Adapter with Power Cord Ethernet Cable, RJ-45 Rubber Feet (x4)

Accessories (Optional)







DH-PFA13A-E Junction Box

PFH101 Rack-mount

Tray

PFA130-E Waterproof Junction Wall Mount Bracket Box

PFB204W

PFA152-E Pole Mount