

Eight-channel 4K Network Video Recorder

Smart 1U 8-port PoE 4K and Smart H.265+



- Smart H.265+ and Smart H.264+ Dual Codec
- Maximum 80 Mbps Recording Bandwidth
- Up to 8 MP Resolution for Preview and Playback
- Simultaneous HDMI and VGA Video Output
- Supports Remote Configuration and Management of Network Cameras
- Supports P2P Remote Surveillance and DMSS Mobile App
- Records Analytics+ Data from Edge Cameras
- Eight (8) PoE/PoE+ Ports
- Five-year Warranty*











System Overview

Dahua's Lite Series network video recorders offer excellent performance and high recording quality for network video surveillance applications. For applications where details are critical for identification, this professional NVR provides a powerful processor with up to 4K resolution. Additionally, the NVR features a mouse shortcut operation menu, remote management and control, center storage, edge storage, and back up storage.

Designed as a cost-effective and easy to install recorder, this NVR is an ideal addition to any security system that monitors public spaces, water conservancy, transportation, city centers, schools, and financial institutions.

The NVR is compatible with numerous third-party devices making it the perfect solution for surveillance systems with or without a video management system (VMS). Its open architecture supports multi-user access and it is compatible with ONVIF S, T, and G protocols, enabling interoperability when combined with 4K cameras.

Functions

4K Resolution

4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of Full HD 1080p devices and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

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.

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 90% when compared to the H.264 video compression standard.

Analytics+ Recording

Working with Dahua WizSense network cameras, the NVR recognizes and records video that contains analytic data on all IP channels. The NVR records intelligence at-the-edge features, including Perimeter Protection, Smart Motion Detection+, and People Counting.

Compatible with DMSS

The DMSS app is available on the iOS App Store and the Google Play Store. DMSS makes surveillance easy and simple, allowing remote access to back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

Technical S	pecification		Third-party Support	
System Main Processor		Industrial-grade Embedded Processor	Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and others
Operating System		Embedded Linux	Natural	and others
Audio and Video			Network	
IP Camera Input		Eight (8) Channels	Ethernet	One (1) RJ-45 Port (10/100 Mbps), Self-adaptive
Audio		Input: One (1) Channel, RCA	PoE	Eight (8) Ports (IEEE802.3af/at)
Analytics+ Recording ¹		Output: One (1) Channel, RCA	Network Function	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTS UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP Alarm Server; IP Search (Support Dahua IP camera DVR; NVS); P2P; Auto register
Perimeter Protection	Channels	Eight (8)	Maximum User Access	128
	Search	By channel, time, event type	Mobile Operating System	IOS, Android
	Channels	Eight (8)	Browser	Chrome, IE 9 or later
SMD+	Search	By target classification (human or vehicle)	Interoperability	ONVIF Profiles S,T,G; CGI, SDK
Display			Storage	
Interface		One (1) HDMI One (1) VGA	Internal HDD	One (1) SATA III Port, Up to 10 TB capacity per HDD
Native Output	Resolution	3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720	HDD Mode	Single
·		Two (2) Channel of 8 MP at 30 fps Four (4) Channels of 4 MP at 30 fps	Auxiliary Interface	
Maximum Decoding		Eight (8) Channels of 2 MP at 30 fps	USB	Two (2) USB 2.0 Ports (rear panel)
Multi-screen Display		1/4/8/9	Electrical	
On-screen Display		Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording	Power Supply	53 VDC, 1.36 A
D 1:		winding betection, necording	NVR Power Consumption	< 10 W, without HDD
Recording			Total PoE Budget	25.5 W single port, 72 W total
Video Compression		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Environmental	
Audio Compression		PCM, G.711A, G.711Mu, G.726	Operating Conditions	-10° C to +50° C (+14° F to +122° F), 10% to 93% F
Supported IP Camera Resolution		8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p, D1	Storage Conditions	0° C to +40° C (32° F to 104° F), 30% to 85% RH
Maximum Recording Bandwidth		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	ection and Alarr	n	Not Weight	0.70 kg (1.54 lb), without HDD
General Alarm	ıs	Motion detection, privacy masking, video loss,	Net Weight	
Anomaly Alarms		scene changing, PIR alarm, IPC external alarm Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and	Gross Weight Certifications	1.80 kg (3.97 lb), without HDD
Analytics+ Alarms		cybersecurity exception Face detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and	Safety	EN62368-1 UL 62368-1 CAN/CSA C22.2 No.62368-1-14
Alarm Actions		SMD alarms Recording, snapshot, audio, buzzer, log, preset, and email	Electromagnetic Compatibility	CFR 47 FCC Part 15 Subpart B EN55032, EN55024, EN55035, EN61000-3-2,
Playback as	nd Backup		(EMC)	EN61000-3-3, EN50130-4
Playback and Backup		1/4/8		
Sync Playback 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		

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

Lite Series | N41C2P Series

Ordering Information					
Туре	Part Number	Description			
	N41C2P	8-channel Smart 1U 8 PoE 4K, No HDD Network Video Recorder			
5: 1. 1. 1. 1.0.40	N41C2P2	8-channel Smart 1U 8 PoE 4K, 2 TB HDD Network Video Recorder			
Eight-channel NVR	N41C2P4	8-channel Smart 1U 8 PoE 4K, 4 TB HDD Network Video Recorder			
	N41C2P6	8-channel Smart 1U 8 PoE 4K, 6 TB HDD Network Video Recorder			





