

Four-channel 4K Network Video Recorder

Smart 1U 4-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
- Four (4) 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

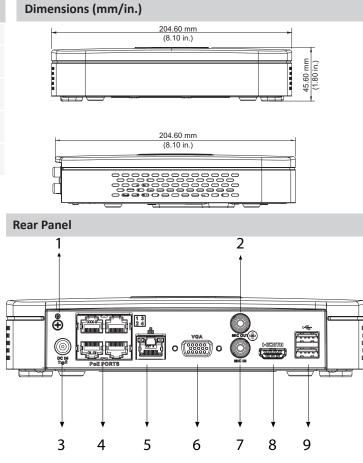
The DMSS app is available on the iOS App Store and the Google Play Store. DMSS makes surveillance easy and simple, allowing remote access to back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually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

Technical Specification			Third-party Support			
System			Dahua, Arecont Vision, AXIS, Bosch, Brickcom,			
Main Processor		Industrial-grade Embedded Processor	Third-party Support	Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and others		
Operating System		Embedded Linux	Natwork			
Audio and Video				Network		
IP Camera Input		Four (4) Channels	Ethernet	One (1) RJ-45 Port (10/100 Mbps), Self-adaptive		
Audio		Input: One (1) Channel, RCA	PoE	Four (4) Ports (IEEE802.3af/at)		
Analytics+ Recording ¹		Output: One (1) Channel, RCA	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		
Perimeter	Channels	Four (4)	Maximum User Access	128		
Protection	Search	By channel, time, event type	Mobile Operating System	IOS, Android		
	Channels	Four (4)	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		
Maximum Decoding		Two (2) Channel of 8 MP at 30 fps Four (4) Channels of 4 MP at 30 fps	Auxiliary Interface			
Multi-screen Display		1/4	USB	Two (2) USB 2.0 Ports (rear panel)		
Width Sereeti E	rispiay	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording	Electrical	Electrical		
On-screen Disp	play		Power Supply	48 VDC, 1.25 A		
Recording			NVR Power Consumption	< 10 W, without HDD		
Video Compression		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Total PoE Budget	25.5 W single port, 36 W total		
Audio Compression		PCM, G.711A, G.711Mu, G.726	Environmental			
Supported IP Camera Resolution		8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p, D1	Operating Conditions	–10° C to +50° C (+14° F to +122° F), 10% to 93% RH		
Maximum Recording Bandwidth		80 Mbps	Storage Conditions	0° C to +40° C (32° F to 104° F), 30% to 85% RH		
Record Mode		Manual Recording; Alarm Recording; SMD Recording; Smart Recording	Construction	Construction		
Video Detection and Alarr		5.	Dimensions (W x L x H)	204.60 mm x 206.40 mm x 45.60 mm (8.06 in. x 8.12 in. x 1.80 in.)		
		Motion detection, privacy masking, video loss,	Net Weight	0.50 kg (1.10 lb), without HDD		
General Alarms		scene changing, PIR alarm, IPC external alarm	Gross Weight	1.43 kg (3.15 lb), without HDD		
Anomaly Alarms		Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cybersecurity exception	Certifications			
Analytics+ Alarms		Face detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and SMD alarms	Safety	EN62368-1 UL 62368-1 CAN/CSA C22.2 No.62368-1-14		
Alarm Actions		Recording, snapshot, audio, buzzer, log, preset, and email	Electromagnetic Compatibility	CFR 47 FCC Part 15 Subpart B EN55032, EN55024, EN55035, EN61000-3-2,		
Playback ar	nd Backup		(EMC)	EN61000-3-3, EN50130-4		
Sync Playback		1/4				
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 | N41C1P Series

Ordering Information							
Туре	Part Number	Description					
	N41C1P	4-channel Smart 1U 4 PoE 4K, No HDD Network Video Recorder					
5	N41C1P2	4-channel Smart 1U 4 PoE 4K, 2 TB HDD Network Video Recorder					
Four-channel NVR	N41C1P4	4-channel Smart 1U 4 PoE 4K, 4 TB HDD Network Video Recorder					
	N41C1P6	4-channel Smart 1U 4 PoE 4K, 6 TB HDD Network Video Recorder					



1	Ground	6	VGA Output
2	Audio Output, RCA (x1)	7	Audio Input, RCA (x1)
3	Power Input	8	HDMI Output
4	PoE Ports, RJ-45 (x4)	9	USB 2.0 Ports (x2)
5	Network Port, RJ-45		

