

Four-channel 4K Network Video Recorder

1U 4-port PoE 4K and H.265 Lite Network Video Recorder



- H.265 and H.264 Video Compression
- Maximum 200 Mbps Incoming Bandwidth
- Up to 8 MP Resolution for Preview and Playback
- Simultaneous HDMI and VGA Video Output
- Support for IPC and UPnP Protocols
- Four (4) PoE Ports
- Support for Automatic Network Replenishment (ANR) Technology













System Overview

Dahua's Lite Series network video recorders offer excellent performance and high recording quality for IP 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 2.4, enabling interoperability when combined with 4K cameras.

Functions

Dewarping Mode

The NVR has the ability to correct the distortion in a circular panoramic view produces by a fisheye lens. The NVR offers various dewarping modes for different installations and configurations.

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.

Intelligent Video System (IVS) Recording

Working with IVS-enabled IP cameras, the NVR recognizes and records video that contains IVS data on all IP channels. The NVR records standard intelligence at-the-edge features, as well as premium IVS features that detect abandoned or missing objects, Tripwire violations, and intrusion violations. The NVR is also capable of recording business analysis data — Facial Detection, People Counting, and Heat Map — from IP cameras with built-in Intelligent Business Analytics.

Heat Map

The Heat Map option highlights the areas with the highest concentration of people. This information can then be exported into a customized report to assist in business or forensic analysis.

Automatic Network Replenishment (ANR) Technology

Network Video Recorders with the ANR function automatically store video data on an IP camera SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

Smart Add

The Smart Add function makes installing an IP surveillance system quick and easy. The NVR automatically detects and lists IP cameras connected to the same router as the NVR. This automatic detection makes adding cameras to the NVR a seamless process.

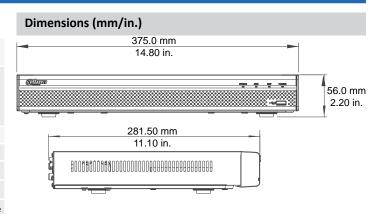


Technical Specification		Third-party Support	
System		Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic,
Main Processor	Embedded Quad-core Processor	rima party support	Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and others
Operating System	Embedded Linux	Network	
Audio and Video		Ethernet	One (1) RJ-45 Port (10/100/1000 Mbps)
IP Camera Input	Four (4) Channels	PoE	Four (4) Ports (IEEE802.3af/at)
Two-way Talk	Input: One (1) Channel, RCA Output: One (1) Channel, RCA		HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP,
Display	One (1) HDMI	Network Function	SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTI Alarm Server, IP Search (Support for Dahua IP cameras, DVRs, NVS)
Interface	One (1) VGA	Maximum User Access	128 Users
Native Output Resolution	3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768	Mobile Operating System	IOS, Android
Maximum Decoding	Two (2) Channels of 4K/6 MP at 30 fps Three (3) Channels of 5 MP at 30 fps Four (4) Channels of 4 MP/3 MP at 30 fps Four (4) Channels of 1080p at 30 fps	Interoperability	ONVIF 2.4, CGI Conformant
		Storage	
Multi-screen Display	1/4	Internal HDD	Two (2) SATA III Ports, Up to 8 TB capacity for each HDD
On-screen Display	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording	HDD Mode	Single
Recording		Auxiliary Interface	
Compression	H.265, H.264, MJPEG	USB	One (1) USB 3.0 Port
Supported IP Camera Resolution	8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, 1.3 MP, 720p, D1, CIF,	Electrical	One (1) USB 2.0 Port
Recording Resolution	Four (4) Channels of 4K at 30 fps	Power Supply	48 VDC, 2 A
Maximum Incoming Bandwidth	200 Mbps	NVR Power Consumption	< 9 W, without HDD
Bit Rate	16 Kbps to 20 Mbps per channel	Total PoE Power Consumption	25.5 W single port, 50 W total
Record Mode	Manual, Schedule (Regular, Continuous), Motion Detection (Video Detection, Motion Detection, Tampering, Video Loss), Stop	Environmental	
		Operating Conditions	-10° C to +55° C (+14° F to +131° F)
Record Interval	1 to 120 minutes (default: 60 minutes) Pre-record: 1 to 30 s	Storage Conditions	-20° C to +70° C (-4° F to +158° F), 0 to 90% RH
Post-record: 10 to 300 s Video Detection and Alarm		Construction	
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	Dimensions	1U, 375.0 mm x 281.50 mm x 56.0 mm (14.80 in. x 11.10 in. x 2.20 in.)
Video Detection	Motion Detection, MD Zones: 396 (22 x 18),	Net Weight	1.6 kg (3.53 lb), without HDD
	Video Loss and Tampering Four (4) Channels,	Gross Weight	3.2 kg (7.05 lb), without HDD
Alarm Input	Low Level Effective, Green Terminal Interface Two (2) Channels,	Certifications	
Relay Output	NO/NC Programmable, Green Terminal Interface	CE	EN55032, EN55024, EN60950-1
Playback and Backup		Safety	UL 60950-1 CAN/CSA C22.2 No.60960-1
Sync Playback	1/4	Electromagnetic Compatibility	FCC CFR 47 Part 15 Subpart B ANSI C63.4-2014
Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to one second), Smart Search	(EMC)	VIAPI C00'4-5074
Playback Function	Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom		
Backup Mode	USB Device, Network		

Intelligence

IVS triggers an alarm and takes a defined action for the following events: • Tampering with the camera. • Camera loses or changes focus drastically. Standard Features • Error writing to an onboard Micro SD card. • Error sending or receiving data over the network. • Unauthorized access to the camera. **Premium Features** Motion An object moves through any part of the scene. Tripwire A target crosses a user-defined line. A target enters or exits a defined perimeter. Intrusion A person or object moves the camera to change the scene Scene Change or covers the camera to obscure the scene. Abandoned/Missing A target leaves an object in designated area, or a target removes an object from the same designated area. Object Advanced Features (records data from IP cameras with Advanced Features) Detects and captures a snapshot of a human face in a **Facial Detection** defined area within a scene. Measure the number of customers, visitors or passengers **People Counting** in a surveillance scene. Generates a visual representation of data. Heat Map

Ordering Information				
Туре	Part Number	Description		
	N42B1P1	4-channel 1U 4 PoE 4K H.265, 1 TB HDD Lite Network Video Recorder		
	N42B1P2	4-channel 1U 4 PoE 4K H.265, 2 TB HDD Lite Network Video Recorder		
Four-channel NVR	N42B1P3	4-channel 1U 4 PoE 4K H.265, 3 TB HDD Lite Network Video Recorder		
	N42B1P4	4-channel 1U 4 PoE 4K H.265, 4 TB HDD Lite Network Video Recorder		
	N42B1P6	4-channel 1U 4 PoE 4K H.265, 6 TB HDD Lite Network Video Recorder		
Accessory, optional	PFH101	Rack Mount Tray		



Rear Panel

