

8-channel 4K Network Video Recorder

1U 8-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
- Eight (8) 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, centre 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	n	Network	
System		Interface	One (1) RJ-45 Port (10/100/1000 N
Main Processor	Embedded Quad-core Processor	Ethernet Port	One (1) Independent 1000 Mbps E
Operating System	Embedded Linux	PoE	Eight (8) Ports (IEEE802.3af/at)
Audio and Video			HTTP, HTTPs, TCP/IP, IPv4/IPv6, UI
IP Camera Input	Eight (8) Channels	Network Function	SMTP, NTP, DHCP, DNS, IP Filter, F Alarm Server, IP Search
Two-way Talk	Input: One (1) Channel, RCA Output: One (1) Channel, RCA		(Support for Dahua IP cameras, D\
Display		Maximum User Access	128 Users
Interface	One (1) HDMI One (1) VGA	Mobile Operating System	IOS, Android
Resolution	3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768	Interoperability	ONVIF 2.4, CGI Conformant
Multi-screen Display	1/4/8/9	Storage	Two (2) SATA III Ports,
On-screen Display	Camera Title, Time, Video Loss, Camera Lock,	Internal HDD	Up to 6 TB capacity for each HDD
	Motion Detection, Recording	HDD Mode	Single
Recording		Auxiliary Interface	
Compression	H.265, H.264, MJPEG 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, 1.3 MP, 720p,	USB	One (1) USB 3.0 Port One (1) USB 2.0 Port
Resolution	D1, CIF,	Electrical	
Record Rate	200 Mbps	Power Supply	100 VAC to 240 VAC, 50/60 Hz
Bit Rate	16 Kbps to 20 Mbps per channel	Power Consumption	NVR: < 9.6 W, without HDD
Record Mode	Manual, Schedule (Regular, Continuous), Motion Detection (Video Detection, Motion Detection, Tampering, Video Loss), Stop	Total PoE Power	25.5 W single port, 130 W total
	1 to 120 minutes (default: 60 minutes)	Environmental	
ecord Interval Pre-reco	Pre-record: 1 to 30 s Post-record: 10 to 300 s	Operating Conditions	-10° C to +55° C (+14° F to +131° I
Video Detection and Alarm		Storage Conditions	-20° C to +70° C (-4° F to +158° F),
rigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	Construction	
/ideo Detection	Motion Detection, MD Zones: 396 (22 x 18), Video Loss and Tampering	Dimensions	1U, 375.0 mm x 327.50 mm x 53.0 (14.80 in. x 12.90 in. x 2.10 in.)
Alarm Input	Four (4) Channels, Low Level Effective, Green Terminal Interface	Net Weight	2.6 kg (5.73 lb), without HDD
Relay Output	Two (2) Channels, NO/NC Programmable, Green Terminal Interface	Gross Weight	4.0 kg (8.82 lb), without HDD
Playback and Backup		Certifications	
Sync Playback	1/4/8	Safety	UL 60950-1 CAN/CSA C22.2 No.60960-1
Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to one second), Smart Search	Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014
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		
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		

Intelligence

IVS triggers an alarm and takes a defined action for the following events:				
Standard Features	 Tampering with the camera. Camera loses or changes focus drastically. 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.			
Intrusion	A target enters or exits a defined perimeter.			
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.			
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.			
Advanced Features (records data from IP cameras with Advanced Features)				
Facial Detection	Detects and captures a snapshot of a human face in a defined area within a scene.			
People Counting	Measure the number of customers, visitors or passengers in a surveillance scene.			
Heat Map	Generates a visual representation of data.			

Ordering Information			
Туре	Part Number	Description	
8-channel NVR	N42B2P	8-channel 1U 8 PoE 4K H.265	



