

32-channel AcuPick 8K Network Video Recorder

1.5U 4HDD WizSense



- Maximum Bandwidth of 384 Mbps Incoming/Recording/Outgoing
- Analytics+ by Recorder: AcuPick¹, 2-channel Face Detection and Face Detection+, 4-channel Perimeter Protection, and 8-channel Smart Motion Detection+
- Analytics+ by Camera: AcuPick, Face Detection, Face Detection+, Perimeter Protection, Smart Motion Detection+, ANPR, Heat Map, and People Counting

















JUST ONE PIC

System Overview

The N8 Series AcuPick NVRs offer outstanding performance and high-grade recording technology that make it ideal for IP video security applications. Its powerful processor supports high access and forwarding bandwidth and strong decoding capabilities to produce unimpeded streams. Thanks to its built-in analytics chip and Dahua's advanced deep learning algorithms, the NVR supports a variety of analytics functions, such as AcuPick, high-precision Face Detection+, and Perimeter Protection to shorten the response time to events and make videos more interactive. This NVR is compatible with numerous third-party devices, making it a great solution for security systems that work with Video Management Software (VMS).

Functions

AcuPick

Dahua effectively utilizes both front-end and back-end intelligence to realize AcuPick. AcuPick technology is a true video search engine that can quickly locate the information you need. Use it to find a lost individual, locate a specific vehicle, or pinpoint evidence of a suspect who's damaged another's property.

Perimeter Protection

Dahua Analytics+ includes Tripwire and Intrusion functions that offer custom tripwires based on object type for automation in limited access areas. Perimeter Protection requires fewer pixels to detect an object to deliver improved accuracy and decreased false alarms due to lights, weather, trees, or animals.

Face Detection

Face Detection technology captures a human face in a digital image and then selects the best image and outputs a snapshot of the face.

Face Detection+

Face Detection+ technology identifies, tracks, and captures a human face in a digital image and then selects the best image and outputs a snapshot of the face. This technology identifies key facial features and obtains the contours of detected faces.

Heat Map

The built-in IVS features people counting and heat map functionality, advanced features that add business intelligence to your security system. Intelligent Analysis tracks and stores daily, weekly, monthly, and yearly people flow through a defined scene and produces a configurable report. The system uses this data to produce a Heat Map, a two-dimensional representation of data that provides an immediate visual summary of activity. People Counting and Heat Maps can identify the most active areas of a retail space providing valuable data analysis for commercial applications.

Automatic License Plate Recognition

The NVR automatically captures and stores vehicle license plate images from a dedicated license plate capture camera connected to the NVR. During playback, an operator can perform a license plate search by Time and Date to view thumbnail images of all plates captured during the specified time period. License plate capture technology offers effective entrance/exit management, traffic monitoring, and parking lot monitoring.

Smart Motion Detection+

Smart Motion Detection, a component of Dahua's Analytics+ technology, improves alarm accuracy and decreases the number of false alarms. The advanced SMD algorithm analyzes a scene for human or vehicle motion, while filtering out other motion due to trees, leaves, animals, weather, and triggers an alarm when detected.

^{1.} AcuPick is only available when the NVR is used with an AcuPick-enabled camera. AcuPick is not supported by the NVR when used with non-AcuPick or third-party cameras.

	160				2-channel: 32MP at 20 fps or 24MP at 20 fps
Technical Specification					4-channel:16MP at 30 fps
System			Decoding	Analytics	5-channel: 12MP at 30 fps 8-channel: 8MP at 30 fps
Main Processor		Industrial-grade Processor		Disabled	12-channel: 5MP at 30 fps
Operating System		Embedded Linux			16-channel: 4MP at 30 fps 32-channel 1080p at 30 fps
Operating Interface		Web, Local GUI	Capability		1-channel: 32MP at 20 fps or 24MP at 20 fps
Analytics+ R	ecording				2-channel: 16MP at 30 fps
Recorder Functions		Face Detection, Face Detection+, Perimeter Protection, Smart Motion Detection+		Analytics Enabled	4-channel: 12MP at 30 fps or 8MP at 30 fps 8-channel: 5MP at 30 fps 12-channel: 4MP at 30 fps
Camera Fuctions		Face Detection, Face Detection+, Perimeter Protection, Video Analytics (Human, Motor Vehicles, and Non-motor Vehicles), Smart Motion Detection+, Crowd Distribution, People Counting, Automatic License Plate Recognition (ANPR), Vehicle Density, Heat Map			24-channel 1080p at 30 fps • 2-channel VGA, 2-channel HDMI Video Output • Spot Output for HDMI1 and HDMI2 • Simultaneous video source output for VGA1 and HDMI1
Perimeter Protection Recording			Video Output		 Simultaneous video source output for VGA2 and HDMI2
Recorder Channels		4 channels (10 IVS Rules per Channel)			Maximum Resolution
Camera Channels		16 Channels			VGA: 1080p
Face Detect	ion			Main Causan	HDMI: 4K
Face Attributes		Gender, Age Group, Glasses, Expressions, Face	Multi-screen Display	Main Screen Sub Screen	1/4/8/9/16/25/36 1/4/8/9/16
		Mask, Beard			ONVIF, Panasonic, Sony, Axis, Arecont, Pelco,
Recorder Channe		2 Channels (Up to 12 Face Images Per Channel)	Third-party Can	nera Support	Canon, Samsung
Camera Channel		16 Channels	Compression	on Standard	
Face Detect		Up to 20 Databases with 200,000 Images	Video Compres	sion	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (Sub Stream Only)
Face Database	Capacity	(Max. 2.5 GB)	Audio Compres	sion	G.711a, G.711Mu, PCM, G.723, G.726, AAC
race Database	Analytics	Name, Gender, Birthday, Address, Credential Type, Credential Number, Country, Region, State	Network		
		1. 16 Channels with Image Stream of 16 Images when the NVR is used for Face Detection+ functionality and the camera is used for Face Detection functionality	Network Protocol		HTTP; HTTPS; TCP/IP; IPv4/IPv6; RTSP; UDP; SNMP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; PPPOE; FTP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration
Recorder Channe	215	2 channels with Image Stream of 12 Images when only the NVR is used for Face Detection	Mobile Phone Access		iOS, Android
		and Face Detection+ functionality (No camera involvment for Face Detection or Face	Interoperability		ONVIF 21.12 (Profile S/Profile T/Profile G), CGI, SDK
Camera Channels		Detection+ functionality) 16 Channels when only the camera is used for Face Detection and Face Detection+ functionality (No NVR involvement for Face Detection or Face	Browser Chrome, Edge, Firefox		
			Recording Playback		Un to 10 Channels
		Detection+ functionality)	Multi-channel Playback		Up to 16 Channels
Smart Motion Detection+		(SMD+) Recording	Record Mode		General, Motion Detection, Intelligent, Alarm, POS
Recorder Channels		8 Channels with Secondary Filtering for False Alarm Reduction	Backup Method		USB Device, Network Instant Playback, General Playback, Event
Camera Channels		16 Channels	Playback Mode		Playback, Tag Playback, Smart playback (Face and Motion Detection)
Video Analy	tics		Storage		
Camera Channels		8 Channels	Disk Group		Yes
Human Attributes		Top Color, Top Type, Hat, Bag, Age, Gender,	Alarm		165
		Umbrella License Plate, Plate Color, Vehicle Model, Vehicle	General Alarm		Motion Detection, Privacy Masking, Local Alarm
Motor Vehicle Attributes		Logo, Plate Color, Ornament, Calling			Camera Offline, Storage Error, Disk Full, IP Conflict,
Non-motor Vehicle Attributes		Vehicle Model, Vehicle Color, Number Of Persons, Helmet	Anomaly Alarm		MAC Conflict, Login Lock, Abnormal Fan Behavior, Cybersecurity Exception
Vehicle License Plate Comparison				Face Detection, Perimeter Protection, Face Detection+, Video Analytics (Human, Motor	
ANPR Channels by Camera		8 channels	Intelligent Alarr	n	Vehices, Non-motor Vehicles), Smart Motion Detection+, Automatic License Plate Recognition (ANPR), Vehicle Density, Heat Map
License Plate Database Capacity		20,000 (Blocklist and Allow List)			
Audio and Video		1. Channels	Alarm Linkage		Record, Snapshot (Panoramic), Local Alarm Output, IPC External Alarm Output, Access
Access Channel		16 Channels	Alarm Linkage		Controller, Audio, Buzzer, Log, Preset, Email
Network Bandwidth	Incoming	Analytics+ Disabled: 384 Mbps Analytics+ Enabled: 200 Mbps	Auxiliary In		
	Recording	Analytics+ Disabled: 384 Mbps Analytics+ Enabled: 200 Mbps	Audio	Input	1-channel RCA 2-channel RCA
	Outgoing	Analytics+ Disabled: 384 Mbps	Alarm	Output	16 channels
		Analytics+ Brabled: 200 Mbps		Output	6 channels (1-channel 12 V 1 A output)
Recording Resolution		32MP, 24MP, 16MP, 12MP, 8MP, 5MP, 4MP, 1080p, 720p, D1, CIF, QCIF	HDD Interface		4 SATA ports, up to 16 TB each. The maximum HDD capacity varies with environment temperature.

Pro Series | N84B5N

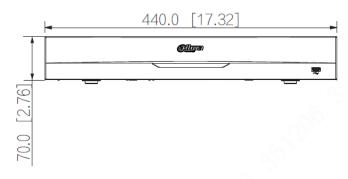
eSATA	1			
RS-232	1			
RS-485	1			
USB	3 (1 front USB 2.0 ports, 2 rear USB 3.0 ports)			
HDMI	2			
VGA	2			
Network Port	2 (10/100/1000 Mbps Ethernet Port, RJ-45)			
Electrical				
Power Supply	100 to 240 VAC, 50 to 60 Hz			
Power Consumption	≤ 13 W (without HDD)			
Environmental				
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)			
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)			
Operating Humidity	10%-93% (RH)			
Certifications				
Safety	UL 62368-1 CAN/CSA C22.2 No.62368-1-14			
Electromagnetic Compatibility	FCC: 47 CFR FCC Part15, SubpartB, Class A EN 55032:2020, Class A EN IEC 61000-3-2:2019 EN 61000-3-3:2013+A1:2019 EN 55024:2010+A1:2015 EN 55035:2020 EN 50130-4:2011+A1:2014			
Electrical				
Net Weight	4.74 kg (10.45 lb)			
Gross Weight	6.11 kg (13.47 lb)			
Product Dimensions (W x D x H)	440.0 mm × 415.1 mm x 70.0 mm (17.32 in. × 16.34 in. × 2.76 in.)			
Packaging Dimensions (W x D x H)	530.0 mm × 500.0 mm × 210.0 mm (20.87 in. × 19.69 in. × 8.27 in.)			
Installation	Rack or Desktop			

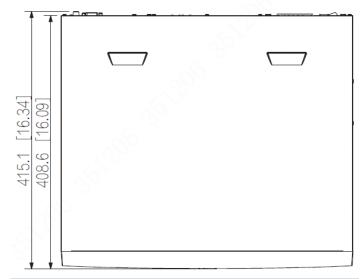
Ordering	Information
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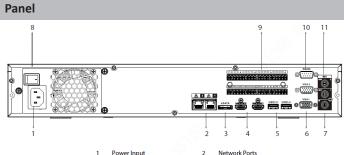
Туре	Part Number	Description	
	N84B5N	32-channel 8K WizSense AcuPick NVR 4SATA	
	N84B5N4	32-channel 8K WizSense AcuPick NVR 4SATA (4 TB)	
Network Video	N84B5N6	32-channel 8K WizSense AcuPick NVR 4SATA (6 TB)	
Necorder	N84B5N8	32-channel 8K WizSense AcuPick NVR 4SAT (8 TB)	
	N84B5N10	32-channel 8K WizSense AcuPick NVR 4SATA (10 TB)	

Dimensions

mm [in.]







- i Fower input
- 3 eSATA Port
- 5 USB Ports
- 7 MIC IN, RCA
- 9 Alarm In/Out
- 11 MIC OUT, RCA Connector
- Network Ports
- HDMI Ports
- 6 VGA Ports
- 10 RS-232 Port