

8K 32-channel Network Video Recorder

2U 8HDDs WizMind





- Analytics+ by Recorder: AcuPick¹, 4-channel Face Detection and Face Detection+, 8-channel Metadata, 24-channel Perimeter Protection, 32-channel SMD+
- Analytics+ by Camera: AcuPick¹, Face Detection, Face Detection+, Perimeter Protection, SMD+, Video Metadata, ANPR, People Counting

















WizMind Series devices offer Dahua Analytics+ functions for comprehensive, human-oriented analytic solutions. WizMind Series products are ideal for complex applications with demanding requirements that need advanced analytic capabilities.

System Overview

As a new generation of network video recorders, the AcuPick N98A series offers high-grade recording technology and Analytics+ capabilities that are ideal for IP video security applications. This enterprise-level NVR has a powerful processor, built-in deep learning modules, and image attribute extraction technology. It also comes with high-precision Face Detection+, Perimeter Protection, and 8K resolution support to shorten the response time to events and provide critical information to security personnel so they can take immediate action. This NVR is compatible with numerous third-party devices, making it the perfect solution for security systems with or without a video management system.

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 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.

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. SMD also saves time when searching recorded video by filtering false alarms and allowing quick retrieval of an alarm due to a person or vehicle.

Image Attribute Extraction

With deep learning algorithm, Dahua Image Attribute Extraction technology can detect, track, capture vehicle, non-motor vehicle, and people, and select the best images, and extract attributes.

Intelligent Business Analysis

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 (ANPR) Technology

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 surveillance, and parking lot monitoring.

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.

Technical S _I	pecification		Audio and \	/ideo	
System			Access Channel		32 Channels
Main Processor		Industrial-grade Processor		Incoming	Analytics+ Disabled: 1024 Mbps Analytics+ Enabled: 512 Mbps
Operating System		Embedded Linux Web, Local GUI	Network Bandwidth	Recording	Analytics+ Disabled: 1024 Mbps Analytics+ Enabled: 512 Mbps
Operating Interf Analytics+ R		web, Local Gol	banawiath	Outgoing	Analytics+ Disabled: 800 Mbps
Recorder Function		Face Detection, Video Analytics (Human, Vehicle,			Analytics+ Enabled: 400 Mbps 32MP, 24MP, 16MP, 12MP, 8MP, 5MP, 4MP,
Recorder Function	ons	Non-motor Vehicle), Smart Motion Detection+ Face Detection, Video Analytics (Human,	Resolution		1080p, 720p, D1
Camera Functions		Vehicle, Non-motor Vehicle), Smart Motion Detection+, Stereo Analysis, Crowd Distribution, People Counting, ANPR, Vehicle Density, Object Monitoring	Decoding Capab	ility	2 Channel: 32MP at 30 fps or 24 MP at 30 fps 4 Channel: 16MP at 30 fps 8 Channel: 8MP at 30 fps 16 Channel: 4MP at 30 fps 32 Channel: 1080p at 30 fps
Perimeter P	rotection Rec	ording		2.1	Input 3
Recorder Channe		24 channels (10 IVS Rules Per Channel)	HDMI	2.0	Input 1 Input 2
Camera Channel		32 channels		1.4	Input 4
Face Detect	ion Recording				2-channel VGA, 4-channel HDMI Video Output
Face Attributes Recorder Channels		Gender, Age Group, Glasses, Expressions, Face Mask, Beard 4 Channels (Up to 12 Face Images Per Channel)		Simultaneous Mode	Maximum Resolution VGA1 and VGA2: 1080p HDMI1 and HDMI2: 4K HDMI3: 8K
Camera Channel		32 channels			HDMI4:1080p
Face Detect	ion+ Recordir Capacity	Up to 40 Databases with 300,000 images	Video Output	Heterogeneous Mode	2-channel VGA, 4-channel HDMI Video Output Simultaneous video source output for VGA1 and HDMI1 or VGA2 and HDMI2
Face Database	Analytics	(Max. 48 GB) Name, Gender, Birthday, Address, Credential Type,			Maximum Resolution
	Allalytics	Credential Number, Country, Region, State 1. 20 Channels with Image Stream of 20 Images			VGA1 and VGA2: 1080p, HDMI1, HDMI2 and HDMI3: 4K HDMI4: 1080p
		when the NVR is used for Face Detection+ functionality and the camera is used for Face Detection functionality	Multi-screen Display		Main Screen: 1/4/8/9/16/25/36 Sub Screen: 1/4/8/9/16/25/36
Recorder Channels		 4 channels with Image Stream of 12 Images when only the NVR is used for Face Detection and Face Detection+ functionality (No camera 	Third-party Camera Access		ONVIF, RTSP, Sony, Axis, Arecont, Pelco, Canon, Samsung
		involvment for Face Detection or Face Detection+ functionality)	Compression	Compression Standard	
Camera Channel		32 Channels when only the camera is used for Face Detection and Face Detecion+ functionality (No NVR involvement for Face Detection or Face Detection+ functionality)	Video Compression		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (Sub Stream Only)
Camera Channel	5		Audio Compression		G.711a, G.711Mu, PCM, G726, AAC, G.723
Smart Motio	on Detection+	· (SMD+) Recording	Network		
Recorder Channe		32 Channels			HTTP, HTTPS, TCP/IP, IPv4, RTSP, UDP, NTP, DHCP, DNS, SMTP, UPNP, DDNS, Alarm Server, IP Search
Camera Channel		32 channels	Network Protoc	ol	(Supports Dahua IP camera, DVR, NVS, etc.), Multicast, P2P, Auto Registration, ISCSI
Video Analy	tics		Mobile Phone A	ccess	iOS, Android
Recorder Channe	els	8 Channels	Interoperability		ONVIF (Profile S/profile T/Profile G), CGI, SDK
Camera Channel		32 Channels	Browser		Chrome, Edge, Firefox
Human Attribute	es .	Top Color, Top Type, Hat, Bag, Age, Gender, Umbrella	Network Mode		Multi-address Mode, Load Balance, Fault Tolerance
Motor Vehicle Attributes		License Plate, Plate Color, Vehicle Model, Vehicle Logo, Plate Color, Ornament, Calling	Recording F	Playback	
Non-motor Vehicle Attributes		Vehicle Model, Vehicle Color, Number Of Persons, Helmet	Multi-channel P	layback	Up to 16 Channels Manual Alarm Motion Detection Scheduled
Vehicle License Plate Comparison		Backup Method		Manual, Alarm, Motion Detection, Scheduled Portable Hard Drive, eSATA, Disk Burner, USB	
ANPR by Camera 32 Channels			Playback Mode		Device, Network 1. Play, Pause, Stop, Fast Forward, Fast Backward
(Number of Channels) License Plate Database Capacity		20,000 (Blocklist and Allow List)			Rewind, Play by Frame 2. Full Screen, Backup (Cut/File), Partially Enlarge Audio On/Off
			Storage		radio onjon
			Disk Group		Yes
			Disk Gloup		160

^{2.} The recorder's Analytics+ functions are available only when connected to a Dahua network camera with Analytics+ functionality.

Hot Swapping

RAID 0/1/5/6/10

Alarm

General Alarm	Motion Detection, Video Tampering, Video Loss, Scene Changing, PIR Alarm, IPC External Alarm
Anomaly Alarm	Camera Offline, Storage Error, Disk Full, IP Conflict, Mac Conflict, Login Lock, Abnormal Fan Behavior
Intelligent Alarm	Face Detection, Face Detection+, Perimeter Protection (Intrusion And Tripwire), SMD+ Alarms, ANPR, People Counting, Stereo Analysis, Crowd Distribution, Heat Map
Alarm Linkage	Record, Snapshot, IPC External Alarm Output,

Auxiliary Interface

Audio Input	1-channel RCA		
Audio Output	2-channel RCA		
Alarm Input	16 channels		
Alarm Output	8 channels		
HDD Interface	8 SATA ports, up to 16 TB each. The maximum HDD capacity varies with environment temperature.		
eSATA	1		
RS-232	1		
RS-485	1 x A/B		
USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)		
HDMI	4		
VGA	2		
Network Port	2 (10/100/1000/2500 Mbps Ethernet port, RJ-45)		

Electrical

Power Supply	100-240 VAC, 50/60 Hz
Power Consumption	<18 W (without HDD)

Environmental

Operating Temperature	-10 °C to +55 °C (14 °F to +131 °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	6.4 kg (14.11 lb) (without HDD)
Gross Weight	10.35 kg (22.82 lb) (without HDD)
Product Dimensions (W x D x H)	444.0 mm × 456.6 mm x 95.0 mm (17.48 in. × 17.98 in. × 3.74 in.)
Packaging Dimensions (W x D x H)	570.0 mm × 570.0 mm × 226.0 mm (22.44 in. × 22.44 in. × 8.90 in.)
Installation	Rack or Desktop

Ordering Information

Туре	Part Number	Description		
	N9A85N	32-channel 2U 8HDDs WizMind AcuPick NVR (No Built-in HDD)		
32 Channels WizMind	N98A5N4	32-channel 2U 8HDDs WizMind AcuPick NVR (4 TB Built-in HDD)		
NVR	N98A5N8	32-channel 2U 8HDDs WizMind AcuPick NVR (8 TB Built-in HDD)		
	N98A5N10	32-channel 2U 8HDDs WizMind AcuPick NVR (10 TB Built-in HDD)		
Accessories (Optional)	ESS1504C	4 HDDs eSATA Storage		

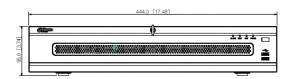
Accessories (Optional)

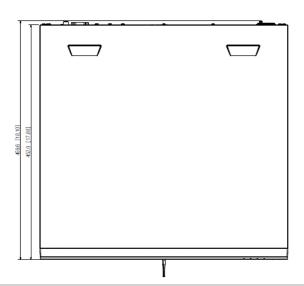


ESS1504C 4 HDDs eSATA Storage

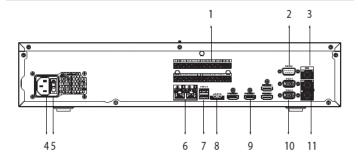
Dimensions

mm [in.]





Rear Panel



- Alarm In/Out
- 2 RS-232 Port
- 3 AUDIO OUT, RCA Connector
- 4 Power Input
- 5 Power Switch
- 6 Network Ports
- 7 USB Ports
- eSATA Port
- 9 HDMI Ports
- 10 VGA Ports
- 11 AUDIO IN, RCA Connector