

8K 64-channel Network Video Recorder

2U 8HDDs WizMind





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 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 4K 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

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.

- Maximum Bandwidth of 1024 Mbps Incoming, 1024 Mbps Recording, 800Mbps Outgoing
- Support HDMI 2.1 Interface
- Supports N+M cluster
- Support RAID 0/1/5/6/10
- Drawer-like chassis design allows for HDD hot swapping
- Analytics+ by Recorder: 4-channel Face Detection and Face Detection+; 24-channel Perimeter Protection; 32-channel Smart Motion Detection+
- Analytics+ by Camera: Face Detection, Face Detection+, Perimeter Protection, SMD Plus, ANPR, and People Counting



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.

Video Storage | N98A6N

Technical Specification

System

System			
Main Processor	Industrial-grade Processor		
Operating System	Embedded Linux		
Operating Interface	Web, Local GUI		
Analytics+ Recording ¹			
Recorder Functions	Face Detection, Video Analytics (Human, Vehicle, Non-motor Vehicle), Smart Motion Detection+		
Camera Functions	Face Detection, Video Analytics (Human, Vehicle, Non-motor Vehicle), Smart Motion Detection+, Stereo Analysis, Crowd Distribution, People Counting, ANPR, Vehicle Density, Object Monitoring		
Perimeter Protection Recording			

Recorder 24 channels (10 IVS Rules Per Channel) Camera 64 channels

Face Detection Recording

Face Attributes	Gender, Age Group, Glasses, Expressions, Face Mask, Beard
Recorder Channels	4 Channels (Up to 12 Face Images Per Channel)
Camera Channels	64 channels

Face Detection+ Recording

Face Database	Capactiy	Up to 40 Databases with 300,000 images (Max. 48 GB)
Face Database	Analytics	Name, Gender, Birthday, Address, Credential Type, Credential Number, Country, Region, State
Recorder Channels		 20 channels with an image stream of 20 images when the NVR is used for Face Detection+ functionality and the camera is used for Face Detection functionality 4 channels with smage stream of 12 images when only the NVR is used for Face Detection and Face Detection+ functionality (No camera involvment for Face Detection or Face Detection+ functionality)
Camera Channels		64 channels when only the camera is used for Face Detection and Face Detecion+ functionality (No NVR involvement for Face Detection or Face Detection+ functionality)

Smart Motion Detection+ (SMD+) Recording

Recorder Channels	32 Channels	
Camera Channels	64 channels	
Video Analytics		
Recorder Channels	8 Channels	
Camera Channels	32 Channels	
Human Attributes	Top Color, Top Type, Hat, Bag, Age, Gender, Umbrella	
Motor Vehicle Attributes	License Plate, Plate Color, Vehicle Model, Vehicl Logo, Plate Color, Ornament, Calling	
Non-motor Vehicle Attributes	Vehicle Model, Vehicle Color, Number Of Persons, Helmet	

Vehicle License Plate Comparison

ANPR by Camera (Number of Channels)	32 Channels
License Plate Database Capacity	20,000 (Blocklist and Allow List)

Audio and Video Access Channel 32 Channels Analytics+ Disabled: 1024 Mbps Incoming Analytics+ Enabled: 512 Mbps Network Analytics+ Disabled: 1024 Mbps Recording Analytics+ Enabled: 512 Mbps Bandwidth Analytics+ Disabled: 800 Mbps Outgoing Analytics+ Enabled: 400 Mbps 32MP, 24MP, 16MP, 12MP, 8MP, 5MP, 4MP, Resolution 1080p, 720p, D1 2 Channel: 32MP at 30 fps or 24 MP at 30 fps 4 Channel: 16MP at 30 fps 8 Channel: 8MP at 30 fps **Decoding Capability** 16 Channel: 4MP at 30 fps 32 Channel: 1080p at 30 fps 64 Channel: 1080p at 15 fp or 720p at 30 fps 2.1 Input 3 Input 1 2.0 HDMI Input 2 1.4 Input 4 2-channel VGA, 4-channel HDMI Video Output Maximum Resolution Simultaneous VGA1 and VGA2: 1080p Mode HDMI1 and HDMI2: 4K HDMI3:8K HDMI4:1080p 2-channel VGA, 4-channel HDMI Video Output Video Output Simultaneous video source output for VGA1 and HDMI1 or VGA2 and HDMI2 Heterogeneous Mode Maximum Resolution VGA1 and VGA2: 1080p, HDMI1, HDMI2 and HDMI3: 4K HDMI4: 1080p Main Screen: 1/4/8/9/16/25/36 Multi-screen Display Sub Screen: 1/4/8/9/16/25/36 ONVIF, RTSP, Sony, Axis, Arecont, Pelco, Canon, Third-party Camera Access Samsung **Compression Standard** Smart H.265+, H.265, Smart H.264+, H.264, Video Compression MJPEG (Sub Stream Only) Audio Compression G.711a, G.711Mu, PCM, G726, AAC, G.723 Network HTTP, HTTPS, TCP/IP, IPv4, RTSP, UDP, NTP, DHCP, DNS, SMTP, UPnP, DDNS, Alarm Server, IP Search Network Protocol (Supports Dahua IP camera, DVR, NVS, etc.), Multicast, P2P, Auto Registration, ISCSI Mobile Phone Access iOS. Android ONVIF (Profile S/profile T/Profile G), CGI, SDK Interoperability Browser Chrome, Edge, Firefox Multi-address Mode, Load Balance, Fault Network Mode Tolerances **Recording Playback** Multi-channel Playback Up to 16 channels Record Mode Manual, Alarm, Motion Detection, Scheduled Portable Hard Drive, eSATA, Disk Burner, USB Backup Method Device, Network 1. Play, Pause, Stop, Fast Forward, Fast Backward, Rewind, Play by Frame Playback Mode 2. Full Screen, Backup (Cut/File), Partially Enlarge, Audio On/Off Storage Disk Group Yes

RAID 0/1/5/6/10

Yes

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

Hot Swapping

Video Storage | N98A6N

Alarm			
General Alarm		otion Detection, Video Tampering, Video Loss, ene Changing, PIR Alarm, IPC External Alarm	
Anomaly Alarm		mera Offline, Storage Error, Disk Full, IP Conflict, ac Conflict, Login Lock, Abnormal Fan Behavior	
Intelligent Alarm		ce Detection, Face Detection+, Perimeter otection (Intrusion And Tripwire), SMD+ Alarms, NPR, People Counting, Stereo Analysis, Crowd stribution, Heat Map	
Alarm Linkage		ecord, Snapshot, IPC External Alarm Output, izzer, Log, Preset, Email	
Auxiliary Interfac	e		
Audio Input	1-	channel RCA	
Audio Output	2-	2-channel RCA	
Alarm Input	16	channels	
Alarm Output	8 (channels	
HDD Interface		SATA ports, up to 16 TB. The maximum HDD pacity 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	10	00–240 VAC, 50/60 Hz	
Power Consumption	<1	.8 W (without HDD)	
Environmental			
Operating Temperature	-1	-10 °C to +55 °C (14 °F to +131 °F)	
Operating Humidity	10	10%-93% (RH)	
Certifications			
Safety		- 62368-1 NV/CSA C22.2 No.62368-1-14	
Electromagnetic Compatibility		C: 47 CFR FCC Part15, SubpartB, Class A \$ 55032:2020, Class A \$ 1600-3-2:2019 \$ 61000-3-3:2013+A1:2019 \$ 55024:2010+A1:2015 \$ 55035:2020 \$ 50130-4:2011+A1:2014	
Electrical			
Net Weight	6.4	6.4 kg (14.11 lb) (without HDD)	
Gross Weight	10	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.)	
		ick or Desktop	
Ordering Informa	ation		
Туре	Part Number	Description	
	N9A85N	64-channel 2U 8HDDs WizMind Network Video Recorder (No Built-in HDD)	
64-Channel WizMind	N98A6N4	64-channel 2U 8HDDs WizMind Network Video Recorder (4 TB Built-in HDD)	
NVR		64 channel 211 8HDDc WizMind Network	

NVR

N98A6N8

N98A6N10

Accessories (Optional) ESS1504C

Accessories (Optional)

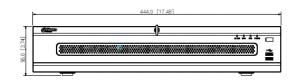


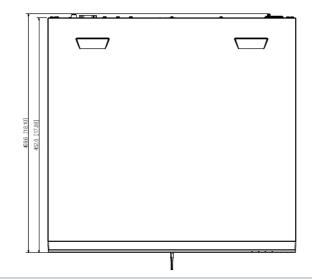
ESS1504C

4 HDDs eSATA Storage

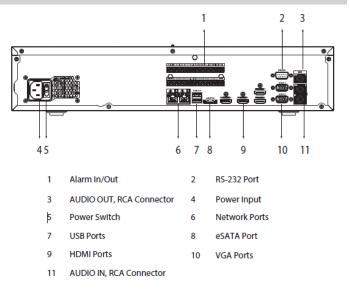
Dimensions

mm [in.]





Rear Panel



64-channel 2U 8HDDs WizMind Network

Video Recorder (8 TB Built-in HDD) 64-channel 2U 8HDDs WizMind Network

Video Recorder (10 TB Built-in HDD)

4 HDDs eSATA Storage