

DHI-NVR5832/5864-I

32/64Channel 2U AI Network Video Recorder



Al series products adopt the most advanced Al technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua Al series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc.

The complete lineup of Dahua AI includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

System Overview

Dahua new NVR5000-I network video recorder delivers excellent performance and high recording quality that is ideally suitable for IP video surveillance applications. This NVR adopts powerful processor, providing the capability of 4K resolution processing for applications where image details are highly required. Additionally, the NVR can be served as edge storage, central storage or backup storage with an intuitive shortcut operation menu for remote management and control.

With build-in deep learning module, NVR5000-I series products adopt video image structuring technology based on deep learning algorithms, achieving high-precision human face recognition and perimeter protection. By applying deep learning artificial intelligence, NVR5000-I allows users to focus on what matters most, improves event response time and helps make video actionable.

The NVR is compatible with numerous third-party devices, which make it the perfect solution for surveillance systems that work independently of video management system (VMS).

Functions

Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

- 32/64 Channel IP video access
- Smart H.265+/H.265/SmartH.264+/H.264/MJPEG
- Up to 16 Channel perimeterprotection
- Up to 4 Channel video stream face recognition
- Up to 24 face pictures /sec processing
- Up to 20 face databases with 100,000 face images in total



Real Time Face Recognition

Video stream & picture stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, mouth mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

Face Database Management

Configurable multiple face databases. Powerful face database management. Face database can be applied to video channels independently. Name, gender, birthday, nationality, address, ID information can be added to each face picture.

Common/Stranger Mode

NVR5000-I supports common and stranger mode. In stranger mode, when NVR detects a strange face(not in device's face database), it can trigger alarm, buzzer, snapshot, record, etc. Similarity threshold can be set manually. This function is developed for important infrastructure sites for which access control is critical.

AI Search

Support seach by metadata of human and vehicles. Support uploading face pictures to NVR and compare them with recorded faces in NVR by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeard.

ANPR

Automatic Number Plate Recognition available for convenient entrance/ exit management. Support license plate recognition(working with Dahua ITC camera), black/white list import/export, add/delete B/W list number, search result from recorded video.

Point of Sale (POS)

Ideal for grocery and retail stores, the optional POS solution allows the NVR to receive a POS transaction via corresponding video. This feature allows merchants to analyze specific transactions via the Fuzzy search algorithm.



Al Series | DHI-NVR5832/5864-I

Technical Specification System Main Processor Multi-core embedded processor Embedded LINUX **Operating System Perimeter Protection** Performance 16 channel, 10 IVS rules for each channel Human/Vehicle secondary recognition for tripwire and Object classification intrusion AI Search Search by target classification (Human, Vehicle) Face Recognition Max 24 face pictures /sec processing (modeling and comparing) Performance 4 channel video stream face recognition / 16 channel picture stream face recognition (with FD camera) Detect strangers' faces(not in device's face database). Stranger Mode Similarity threshold can be set manually. Up to 8 target face images search at same time, similarity AI Search threshold can be set for each target face image. Up to 20 face databases with 100,000 face images in total. Database Management Name, gender, birthday, nationality, address, ID information can be added to each face picture. Each database can be applied to video channels **Database Application** independently. Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm **Trigger Events** Out, PTZ Activation, etc. Metadata Face Gender, age, glasses, beard, mask. Vehicle color, vehicle model, vehicle logo, plate color, Vehicle vehicle decorations, call, seatbelt. Human Body Tops style,tops color,bottom style,bottom color, hat, bag. Non-motor Vehicle Type, color, people number. AI Search Support search target video by metadata. Audio and Video **IP** Camera Input 32/64 Channel Two-way Talk 1 Channel Input, 1 Channel Output, RCA Display Interface 2 HDMI, 1 VGA HDMI1/VGA: 1920 × 1080 , 1280 × 1024 , 1280 × 720 , 1024 ×768 Resolution HDMI2: 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720, 1024 × 768 **Decoding Capability** 4-ch@8MP(30fps), 16-ch@1080P(30fps) 1st Screen: 1/4/8/9/16/25/36 Multi-screen Display 2nd Screen: 1/4/8/9/16 Recording Bandwidth 320Mbps (160Mbps when AI function enabled) Compression Smart H.265+/H.265/Smart H.264+/H.264/MJPEG 16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, Resolution 720P, D1 etc. Manual, Schedule (Continuous, MD(Motion Detection), Record Mode Alarm, IVS)

Video Detection and	Alarm		
Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour, Snapshot, Voice Prompt, Buzzer and Screen Tips		
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Scene Change		
Alarm input	16 Channel		
Relay Output	6 Channel		
Playback and Backup			
Sync Playback	1/4/9/16		
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)		
Backup Mode	USB Device/Network/eSATA Device		
Third-party Support			
Third-party Support	Arecont Vision, Airlive, AXIS, Canon, Dynacolor, JVC, LG, Panasonic, Pelco, PSIA, Samsung, Sanyo, Sony, Watchnet and more		
Network			
Interface	2 RJ-45 Ports (10/100/1000Base-T)		
PoE	N/A		
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E,DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.), P2P		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android		
Interoperability	ONVIF 2.4, SDK, CGI		
Storage			
Internal HDD	8 SATA III Ports, Up to 8 TB capacity for each HDD		
eSATA	1 eSATA		
Auxiliary Interface			
USB	4 USB Ports (2 Rear USB 3.0 , 2 Front USB 2.0)		
RS232	1 Port, for PC Communication and Keyboard		
RS485	1 Port, for PTZ Control		

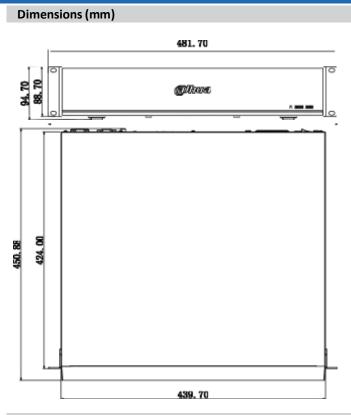
1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-

record: 10 ~ 300 sec

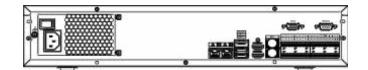
Record Interval

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Electrical			
Power Supply	Single, AC100V ~ 240V, 50 ~ 60 Hz		
Power Consumption	NVR: <16.1W (Without HDD)		
Fan	Smart fan, automatically adjust running speed		
Environmental			
Operating Conditions	-10°C~+55°C (+14°F~+131°F), 86~ 106kpa		
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH		
Construction			
Dimensions	2U, 440mm x 450.13mm x 95mm ; (17.3" x 17.7" x 3.7")		
Net Weight	6.70kg (14.8 lb) (without HDD)		
Gross Weight	9.30kg (20.5 lb) (without HDD)		
Certifications			
CE	EN55032, EN55024, EN50130-4, EN60950-1		
FCC	Part 15 Subpart B, ANSI C63.4-2014		
UL	UL 60950-1		



Rear Panel



Ordering Information			
Туре	Part Number	Description	
32/64 Channel Al NVR	DHI-NVR5832/ 5864-I	32/64 Channel 2U Al Network Video Recorder	



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