

# 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.

#### Al 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.



Alarm, IVS)

Record Mode

Record Interval

 $\label{eq:manual_model} \mbox{Manual, Schedule (Continuous, MD (Motion Detection) ,}$ 

 $1\,^{\sim}\,120\,$  min (default: 60 min), Pre-record: 1  $^{\sim}$  30 sec, Post-record: 10  $\,^{\sim}\,300\,\mathrm{sec}$ 

Technical Specification		Video Detection a	nd Alarm	
System		Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour, Snapshot, Voice Prompt, Buzzer and Screen Tips	
Main Processor	Multi-core embedded processor	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss,	
Operating System	Embedded LINUX	Alarm input	Tampering and Scene Change  16 Channel	
Perimeter Protection	on	Relay Output	6 Channel	
Performance	16 channel, 10 IVS rules for each channel	Playback and Back		
	Human/Vehicle secondary recognition for tripwire and			
Object classification	intrusion	Sync Playback	1/4/9/16	
Al Search	Search by target classification (Human, Vehicle)	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)	
Face Recognition		Backup Mode	USB Device/Network/eSATA Device	
D (	Max 24 face pictures /sec processing (modeling and comparing)	Third-party Suppo	rt	
Performance	4 channel video stream face recognition / 16 channel picture stream face recognition ( with FD camera)	Third-party Support	Arecont Vision, Airlive, AXIS, Canon, Dynacolor, JVC, LG, poort Panasonic, Pelco, PSIA, Samsung, Sanyo, Sony, Watchnet and more	
Stranger Mode	Detect strangers' faces(not in device's face database). Similarity threshold can be set manually.	Network		
Al Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.	Interface	2 RJ-45 Ports (10/100/1000Base-T)	
Database Management	Up to 20 face databases with 100,000 face images in total. Name, gender, birthday, nationality, address, ID information can be added to each face picture.	PoE	N/A	
Database Application	Each database can be applied to video channels independently.	Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDI SMTP, NTP, DHCP, DNS, IP Filter, PPP0E,DDNS, FTP, Alar Server, IP Search (Support Dahua IP camera, DVR, NVS,	
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.	Max. User Access	etc.), P2P	
Metadata		Wax. Oser Access	120 USE15	
Face	Gender, age, glasses, beard, mask.	Smart Phone	iPhone, iPad, Android	
Vehicle	Vehicle color, vehicle model, vehicle logo, plate color, vehicle decorations, call, seatbelt.	Interoperability	ONVIF 2.4, SDK, CGI	
Human Body	Tops style,tops color,bottom style,bottom color, hat, bag.	Storage		
Non-motor Vehicle	Type, color, people number.	Internal HDD	8 SATA III Ports, Up to 8 TB capacity for each HDD	
Al Search	Support search target video by metadata.	eSATA	1 eSATA	
Audio and Video				
IP Camera Input 32/64 Channel		Auxiliary Interface		
Two-way Talk	way Talk 1 Channel Input, 1 Channel Output, RCA		4 USB Ports (2 Rear USB 3.0 , 2 Front USB 2.0 )	
Display		RS232	1 Port, for PC Communication and Keyboard	
Interface	2 HDMI, 1 VGA	RS485	1 Port, for PTZ Control	
Resolution	HDMI1/VGA: 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768			
	HDMI2: 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768			
Decoding Capability	4-ch@8MP(30fps), 16-ch@1080P(30fps)			
Multi-screen Display	1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9/16			
Recording				
Bandwidth	320Mbps (160Mbps when Al function enabled)			
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG			
Resolution	16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.			

## Al series | DHI-NVR5832/5864-I

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			

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### **Rear Panel**

Dimensions (mm)

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

