

# DHI-NVR5424-24P-4KS2

## 24 Channel 1.5U 4HDDs 24PoE 4K & H.265 Pro Network Video Recorder



Dahua's new NVR5000-4KS2 network video recorder delivers excellent performance and high recording quality that is ideally suitable for IP video surveillance applications. This professional 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.

#### **Series Overview**

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). It features an open architecture that supports multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability with 4K cameras.

#### **Functions**

#### **Perimeter Protection by Camera**

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

#### **Face Recognition by Camera**

Dahua face recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

#### **SMD Plus by Camera**

With intelligent algorithm, Dahua smart motion detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

#### Video Metadata by Camera

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

- · 24-channel IP video access
- Smart H.265+/Smart H.264+/H.265/H.264/MJPEG; H.265 auto switch
- · Max 320 Mbps incoming bandwidth
- Up to 24MP resolution for live view and playback
- · 1-channel fisheye dewarping (AI by NVR)
- Al by Camera: Perimeter protection; face detection and recognition; SMD Plus; video metadata; ANPR; people counting; stereo analysis; crowd distribution; heat map
- · Support IPC UPnP, 24 PoE ports



#### **ANPR by Camera**

With deep learning algorithm, Dahua ANPR technology can recognize the number plate information of vehicles in the image with ANPR cameras. Support block/allowlist mode, searching target vehicles from recorded video.

#### **Fisheye Dewarping**

Fisheye dewarping solves the problem of distortion in the circular panoramic view. The device offers various dewarping modes for different installations and configurations that enhance the video, in both live or playback modes. Each dewarping mode offers options to adjust each scene.

#### **People Counting by Camera**

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

#### Stereo Analysis by Camara

With deep learning algorithm and scene 3-dimensional information, Dahua stereo analysis technology can recognize people's behaviors, such as fall detection, violence detection, strand detection, and space exception, and then generates alarm signals and triggers linkage.

#### DMSS

The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.



Technical Specification		Third Party Camera Access	Third Party Camera Access Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon and more		
System		Compression	Compression		
Main Processor	Industrial embedded micro-processor	Video	Smart H.265+; Smart H.264+; H.265; H.264; MJPEG		
Operating System	Embedded Linux	Audio	PCM; G.711A; G.711U; G.726		
Operation Interface	Web; local GUI	Network	Network		
Perimeter Protection by	Camera		HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, and more.); P2P		
Performance	20 channels	Network Protocol			
Al Search	Search for pictures by channel, time and event type	Mobile Phone Access			
Face Recognition by Camera		Interoperability	ONVIF (profile T/S/G); CGI; SDK		
Performance	14 channels	Browser	Chrome; IE9 or later; Firefox		
Face Attributes	6 attributes: Gender; age; glasses; expression; mouth mask; beard	Record Playback			
Al Search	Search for pictures by channel, time and face attributes	Multi-channel Playback	1/4/9/16		
SMD Plus by Camera	attributes	Record Mode	Manual; schedule (general; MD; alarm; MD & alarm;		
Performance	24 channels		intelligent; POS)		
Al Search	Search by target classification (human, vehicle)	Storage Method	Local HDD and network		
Video Metadata by Cam	era	Backup	USB device		
Performance	16 channels	Playback Function	<ol> <li>Play; pause; stop; fast forward; fast backward; rewind; play by frame</li> <li>Full screen; backup (cut/file); partially enlarge;</li> </ol>		
Human Body	Top; top color; bottom; bottom color; hat; bag; gender; age; umbrella		audio on/off		
Vahiela	Plate No.; type; color; vehicle type; logo; plate color;	Storage	Storage		
Vehicle	ornament; calling; seatbelt; region	Disk Group	Yes		
Non-motor Vehicle	Type; color; number of passengers; helmet	Alarm			
Al Search	Supports searching for target video by metadata	General Alarm	Motion detection; privacy masking; video loss; local alarm; PIR alarm; IPC alarm		
ANPR by Camera  Performance 4 channels		Anomaly Alarm	Camera offline; storage error; full storage; IP conflict; MAC conflict; login lock; network security anomaly		
Stereo Analysis by Camera			Perimeter protection; face detection; face		
Performance	16 channels	Intelligent Alarm	recognition; SMD; video metadata (human; motor-vehicle; non-motor vehicle); ANPR; people counting; stereo analysis; crowd distribution;		
Al Search	Search by target classification (fall detection; people approach detection; people No. exception detection; people staying detection; violence	Alarm Linkage	heat map  Record; snapshot; IPC external alarm output;		
	detection)	_	buzzer; log; preset; email  External Port		
Video			Audio Input 1 channel, RCA connector		
Access Channel	24	·	1 channel, RCA connector, which supports voice		
Network Bandwidth	320 Mbps for access, 320 Mbps for storage and 320 Mbps for forwarding	Audio Output	intercom output		
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 1.3MP, 720p, D1, and more	HDD	4 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature		
Decoding Capability	16-channel@1080P (30 fps)	Alarm Input	16 channels		
Video Output	HDMI1: 3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720 VGA1: 1920 × 1080; 1280 × 1024; 1280 × 720 HDMI2/VGA2: 1920 × 1080 VGA1/HMDI1 homologous output, VGA2/HDMI2 homologous output, and VGA1/HDMI1 and VGA2/HDMI2 supports heterogeneous output	Alarm Output	6 channels		
		eSATA	1 eSATA		
		RS-232	1 channel, used to debug and pass through serial data		
Multi-screen Display	1st Screen: 1/4/8/9/16/25	RS-485	1 channel, used to control PTZ, and it supports multiple protocols		
	2nd Screen: 1/4/8/9/16	USB	1 front USB 2.0 port, 2 rear USB 3.0 ports		



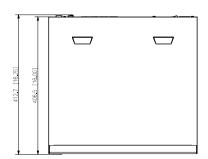
# Pro Series | DHI-NVR5424-24P-4KS2

HDMI	2		
VGA	1		
Network	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet port		
PoE	24 ports (IEEE802.3af/at)		
General Parameter			
Power Supply	Single, 100V–240V AC, 50 Hz–60 Hz		
Power Consumption	< 20W (without HDD)		
Net Weight	4.7 kg (10.4 lb) (without HDD)		
Gross Weight	7.2 kg (15.9 lb) (without HDD)		
Product Dimensions	440 mm × 412.7 mm × 76.0 mm (17.3" × 16.3" × 3.0")		
Package Dimensions	522 mm × 492 mm × 200 mm (20.6" × 19.4" × 7.9")		
Operating Temperature	-10°C to +55°C (+14°F to +131°F)		
Storage Temperature	0°C to +40°C (+32°F to +104°F)		
Operating Humidity	10%-93% (RH)		
Storage Humidity	30%-85% (RH)		
Operating Altitude	3,000 m (9,843 ft)		
Certifications	CE: EN55032; EN55024; EN50130-4; EN60950-1 FCC: Part 15 Subpart B; ANSI C63.4-2014 UL: UL 60950-1		

Ordering Information				
Туре	Model	Description		
24 Channel NVR	DHI-NVR5424-24P- 4KS2	24 Channel 1.5U 24PoE 4K & H.265 Pro Network Video Recorder		

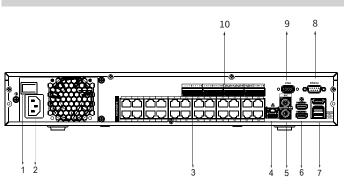
## Dimensions (mm[inch])





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Panels



1	Power Switch	2	Power Input
3	PoE Ports	4	Network Port
5	AUDIO IN and OUT, RCA Connector	6	HDMI Ports
7	eSATA and USB Ports	8	RS-232 Port
9	VGA Port	10	Alarm In/Out

