

# DHI-NVR5416/32/64-16P-4KS2E

16/32/64Channel 1.5U 16PoE 4K&H.265 Pro Network Video Recorder



- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Max 320Mbps Incoming Bandwidth
- Up to 12MP Resolution for Preview and Playback
- 2HDMI/2VGA simultaneous video output
- 1-8 PoE Ports Support 800m ePoE & EoC



#### Smart Fan

The NVR is equipped with a smart fan to achieve high cooling efficiency. It automatically adjusts fan speed according to CPU and ambient temperature. The fan is long-lasting and low noise, reducing maintenance costs and improving the user experience.

#### Easy4ip

The Easy4ip app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access NVR 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!

#### Fisheye Dewarping

Fisheye dewarping solves the problem of distortion in the circular panoramic view. The NVR 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.

#### 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.

Automatic Network Replenishment (ANR) Technology

Network Video Recorders with the ANR function automatically store video data on an IP camera SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.



# System Overview

Dahua 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.

Due to its easy-to-install design, the NVR is ideal for a wide range of applications such as public safety, water conservancy, transportation, city centers, education, and financial institutions.

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 for multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability with 4K cameras.

# Functions

## Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

## ePoE & EoC

The NVR supports 800m ePoE and EoC technology for use in a broad range of application scenarios. ePoE technology simplifies the network structure of long-range surveillance projects, eliminating the requirement for extra network repeater devices, making the system more reliable and easy to deploy. EoC technology makes it possible to upgrade existing systems to high definition IP surveillance while using existing coax cables.

# Pro Series | DHI-NVR5416/32/64-16P-4KS2E

#### **Technical Specification** System Main Processor Quad-core embedded processor Embedded LINUX **Operating System** Audio and Video IP Camera Input 16/32/64 Channel Two-way Talk 1 Channel Input, 2 Channel Output, RCA Display Interface 2 HDMI, 2 VGA HDMI1: 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720, 1024 × 768 VGA1: 1920 × 1080 , 1280 × 1024, Resolution 1280 × 720 , 1024 × 768 HDMI2/VGA2: 1920 × 1080 4-ch@8MP(30fps), 16-ch@1080P(30fps) **Decoding Capability** 1st Screen: 16CH: 1/4/8/9/16 32CH: 1/4/8/9/16/25/36 Multi-screen Display 64CH: 1/4/8/9/16/25/36/64 2nd Screen: 1/4/8/9/16 Camera title, Time, Camera lock, Motion detection, OSD Recording Recording Smart H.265+/H.265/Smart H.264+/H.264/MJPEG Compression 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, Resolution 720P, D1 etc. Bit Rate 16Kbps ~ 20Mbps Per Channel Manual, Schedule (Regular, MD(Motion Detection) , Record Mode Alarm, IVS), Stop 1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 **Record Interval** sec, Post-record: 10 ~ 300 sec Video Detection and Alarm

Recording, PTZ, Tour, Alarm Out, Video Push, Email, **Trigger Events** Snapshot, Buzzer and Screen Tips Motion Detection, MD Zones: 396 (22 × 18), Video Video Detection Loss and Tampering Alarm input 16 Channel **Relay Output** 6 Channel Playback and Backup Sync Playback 1/4/9/16 Time /Date, Alarm, MD and Exact Search (accurate Search Mode to second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next **Playback Function** File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom Backup Mode USB Device/Network/eSATA Device Third-party Support Arecont Vision, Airlive, AXIS, Canon, Dynacolor, JVC, Third-party Support LG, Panasonic, Pelco, PSIA, Samsung, Sanyo, Sony, Watchnet and more

Network		
Interface	1 RJ-45 Ports (10/100/1000Mbps)	
РоЕ	16 ports (IEEE802.3af/at) 1-8 ports support ePoE & EoC	
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.), Easy4IP	
Max. User Access	128 users	
Smart Phone	iPhone, iPad, Android	
Interoperability	ONVIF 2.4, SDK, CGI	
Storage		
Internal HDD	4 SATA III Ports, Up to 10 TB capacity for each HDD	
eSATA	1 eSATA	
Auxiliary Interface		
USB	3 USB Ports (2 Rear USB 3.0 , 1 Front USB 2.0 )	
RS232	1 Port, for PC Communication and Keyboard	
RS485	1 Port, for PTZ Control	
Electrical		
Power Supply	Single, AC100V ~ 240V, 50 ~ 60 Hz	
Power Consumption	NVR: <17.5W (Without HDD)	
	PoE: Max 25.5W for single port 150W total rated power, 80% control for protection	
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	1.5U, 440mm x 411.2mm x 76mm ; (17.3" x 16.2" x 3.0")	
Net Weight	4.65kg (10.3 lb) (without HDD)	
Gross Weight	7kg (15.4 lb) (without HDD)	
Installation	Rack-mounted	
Certifications		
CE	EN55032, EN55024, EN50130-4, EN60950-1	
FCC	Part 15 Subpart B, ANSI C63.4-2014	
UL	UL 60950-1	

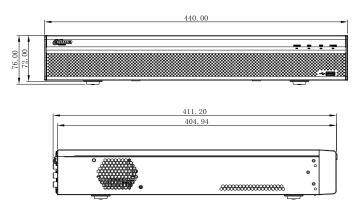
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#### **Ordering Information**

Accessories

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Туре	Part Number	Description
16 Channel NVR	DHI-NVR5416-16P- 4KS2E	16 Channel 1.5U 16PoE 4K&H.265 Pro Network Video Recorder
32 Channel NVR	DHI-NVR5432-16P- 4KS2E	32 Channel 1.5U 16PoE 4K&H.265 Pro Network Video Recorder
64 Channel NVR	DHI-NVR5464-16P- 4KS2E	64 Channel 1.5U 16PoE 4K&H.265 Pro Network Video Recorder
Accessories	ESS1504C	4 HDDs eSATA Storage (Please confirm with Technical Support for HDD capacity & compatibility)
	ESS1508C	8 HDDs eSATA Storage (Please confirm with Technical Support for HDD capacity & compatibility)

## **Dimensions (mm)**



# **Rear Panel**

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