

# DHI-NVR4416/4432-4KS2

16/32 Channel 1.5U 4K&H.265 Lite Network Video Recorder



- H.265/H.264 codec decoding
- Max 200Mbps Incoming Bandwidth
- Up to 8MP Resolution for Preview and Playback
- Up to 2ch@4K/8ch@1080P decoding
- HDMI/VGA simultaneous video output



## System Overview

Dahua NVR4000-4KS2 is introduced as the first Lite series NVR that supports for 4K and H.265 encoding technology with excellent performance at an affordable price. For applications where image details are highly required, it delivers the capability of 4K resolution processing. 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 cost-effective and easy-to-install design, this 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 making 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 IP cameras.

## Functions

### 4K Resolution

4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

### High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

### Intelligent Video System

Working with IVS-enabled IP cameras, the NVR recognizes and records video that contains IVS data on all IP channels. The NVR records standard intelligence at-the-edge features, as well as premium IVS features that detect abandoned or missing objects, Tripwire violations, and intrusion violations. The NVR is also capable of recording business analysis data – Facial Detection, People Counting, and Heat Map – from IP cameras with built-in Intelligent Business Analytics.

### ANR (Automatic Network Replenishment 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.

### 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!

## Technical Specification

### System

|                  |                              |
|------------------|------------------------------|
| Main Processor   | Quad-core embedded processor |
| Operating System | Embedded LINUX               |

### Audio and Video

|                 |  |
|-----------------|--|
| IP Camera Input | 16/32 Channel                          |
| Two-way Talk    | 1 Channel Input, 1 Channel Output, RCA |

### Display

|                      |  |
|----------------------|--|
| Interface            | 1 HDMI, 1 VGA  |
| Resolution           | HDMI: 3840×2160, 1920×1080, 1280×1024, 1280×720              |
|                      | VGA: 1920×1080, 1280×1024, 1280×720                          |
| Decoding Capacity    | 2ch@4K 30fps, 8ch@1080P 30fps                                |
| Multi-screen Display | 16CH: 1/4/8/9/16   |
|                      | 32CH: 1/4/8/9/16/25/36                                       |
| OSD                  | Camera title, Time, Camera lock, Motion detection, Recording |

### Recording

|                 |   |
|-----------------|---|
| Compression     | H.265/ H.264  |
| Resolution      | 8Mp/ 6Mp/ 5MP/ 4MP/ 3MP/ 1080P/ 1.3MP/ 720P etc.  |
| Record Rate     | 200Mbps   |
| Bit Rate        | 16Kbps ~ 20Mbps Per Channel   |
| Record Mode     | Manual, Schedule (Regular, Continuous), MD (Video detection: Motion Detection, Tampering, Video Loss), Stop |
| Record Interval | 1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec                            |

### Video Detection and Alarm

|                 |   |
|-----------------|---|
| Trigger Events  | Recording, PTZ, Tour, Video Push, Email, Snapshot, Buzzer and Screen Tips |
| Video Detection | Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering       |
| Alarm input     | 16 Channel  |
| Relay Output    | 4 Channel   |

### Playback and Backup

|                   |  |
|-------------------|--|
| Playback          | 1/4/9/16   |
| Search Mode       | Time /Date, MD and Exact Search (accurate to second), Smart search   |
| Playback Function | Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom |
| Backup Mode       | USB Device/Network   |

## 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  |
| PoE              | N/A  |
| Network Function | HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DNS, IP Filter, PPPoE, DDNS, FTP, SNMP, 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 6 TB capacity for each HDD |
| HDD Mode     | Single   |

## Auxiliary Interface

|       |   |
|-------|---|
| USB   | 2 ports(1 USB2.0, 1 USB3.0)               |
| RS232 | 1 Port, for PC Communication and Keyboard |
| RS485 | 1 Port, for PTZ Control                   |

## Electrical

|                   |                           |
|-------------------|---------------------------|
| Power Supply      | AC100V ~ 240V, 50 ~ 60 Hz |
| Power Consumption | < 11.7W(without HDD)      |

## 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×411.1mm×76mm (17.3" x 16.2" x 3.0") |
| Net Weight   | 4.5kg (9.9 lb) (without HDD)                    |
| Gross Weight | 7kg(15.4 lb)(without HDD)                       |

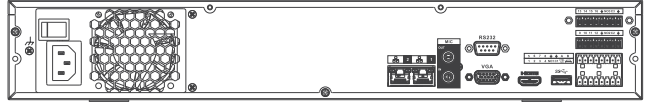
## Certifications

|     |  |
|-----|--|
| CE  | EN55032, EN55024, EN50130-4, EN60950-1 |
| FCC | Part 15 Subpart B, ANSI C63.4-2014     |
| UL  | UL60950-1                              |

### Ordering Information

| Type           | Part Number      | Description  |
|----------------|------------------|--|
| 16 Channel NVR | DHI-NVR4416-4KS2 | 16 Channel 1.5U 4K&H.265 Lite Network Video Recorder |
| 32 Channle NVR | DHI-NVR4432-4KS2 | 32 Channle 1.5U 4K&H.265 Lite Network Video Record   |

### Rear Panel



### Dimensions (mm)

