

# DHI-NVR5416/5432/5464-16P-4KS2

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



- H.265/H.264/MJPEG/MPEG4 codec decoding
- Max 320Mbps incoming bandwidth
- Up to 12Mp resolution preview&playback
- 2HDMI/VGA simultaneous video output
- 3D intelligent positioning with Dahua PTZ camera



## System Overview

Dahua's NVR5000-4KS2 network video recorder offers an excellent performance and high recording quality for IP video surveillance applications. For applications where details are critical for identification, this professional NVR provides a powerful processor with up to 4K resolution. Additionally, the NVR features a mouse shortcut operation menu, remote management and control, centre storage, edge storage, and back up storage. Designed as a cost-effective, easy installation, 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 with or without a video management system (VMS). Its open architecture supports multi-user access and is compatible with ONVIF 2.4, enabling interoperability when combined with 4K cameras.

## Functions

### Fisheye Dewarping

The NVR features multiple fisheye dewarping modes to make viewing video easy whether its live or during playback.

### 4K Resolution

The NVR supports 4K ultra HD resolution (3840 x 2160) for recording, live viewing and playback.

### Intelligent Video System (IVS)

Working with built-in intelligent video analytics IP cameras, the NVR has the ability to detect and analyze moving objects for improved video surveillance. The NVR provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, People Counting, ideal for business intelligence, and Face Detection, for searching or identification of individuals.

### 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.

### ANR (Automatic Network Replenishment Technology)

Video record in SD card in IP cameras when the network breaks down, and after the network recovered, the video will be transferred to NVR and then recorded in it.

## Technical Specification

### System

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

### Display

|                      |  |
|----------------------|--|
| Interface            | 2 HDMI (1 HDMI up to 3840x2160, Different Source ), 1 VGA  |
| Resolution           | 3840x2160, 1920x1080, 1280x1024, 1280x720, 1024x768  |
| Multi-screen Display | 1st screen: 16CH: 1/4/8/9/16<br>32CH: 1/4/8/9/16/25/36<br>64CH: 1/4/8/9/16/25/36<br>2nd screen: 1/4/8/9/16 |
| OSD                  | Camera title, Time, Video loss, Camera lock, Motion detection, Recording                                   |

### Video Detection and Alarm

|                        |   |
|------------------------|---|
| Trigger Events         | Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips |
| Video Detection        | Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering                       |
| Alarm input            | 16 Channel, Low Level Effective, Green Terminal Interface                                 |
| Relay Output           | 6 Channel, NO/NC Programmable, Green Terminal Interface                                   |
| Tracking Trigger Event | N/A   |

### Playback and Backup

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

### Storage

|              |   |
|--------------|---|
| Internal HDD | 4 SATA III Ports, up to 8TB capacity for each HDD |
| HDD Mode     | Single  |
| eSATA        | 1 eSATA port                                      |
| SAS          | N/A   |

### Auxiliary Interface

|             |   |
|-------------|---|
| Front Cover | N/A                                       |
| USB         | 3 ports (2 Rear USB3.0, 1 Front USB2.0)   |
| RS232       | 1 Port, for PC Communication and Keyboard |
| RS485       | 1 Port, for PTZ Control                   |

### Third-party Support

|                     |  |
|---------------------|--|
| Third-party Support | Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more |
|---------------------|--|

### Audio and Video

|                 |  |
|-----------------|--|
| IP Camera Input | 16/32/64 Channel                       |
| Two-way Talk    | 1 Channel Input, 1 Channel Output, RCA |

### Recording

|                 |  |
|-----------------|--|
| Compression     | H.265/H.264/MJPEG/MPEG4  |
| Resolution      | 12Mp/8Mp/6Mp/5Mp/4Mp/3Mp/1080P/ 720P/D1&etc.                               |
| Record Rate     | 320Mbps  |
| Bit Rate        | 16kbps~20Mbps for per channel  |
| Record Mode     | Manual, Schedule(Regular(Continuous), MD, Alarm), Stop                     |
| Record Interval | 1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec |

### Network

|                         |   |
|-------------------------|---|
| Interface               | 1 RJ-45 port (10/100/1000Mbps)  |
| Ethernet Port           | 1 Independent 1000Mbps Ethernet Port  |
| PoE                     | 16 ports (IEEE802.3af/at)   |
| Network Function        | HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search(Support Dahua IP camera, DVR, NVS and etc.), P2P |
| Optical Fiber Interface | N/A   |
| Max. User Access        | 128 users   |
| Smart Phone             | iPhone, iPad, Android   |
| Interoperability        | ONVIF 2.4, CGI Conformant   |

### Electrical

|                   |                               |
|-------------------|-------------------------------|
| Power Supply      | Single, AC 100~240V, 50/60 Hz |
| Power Consumption | <17.5W (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(WxDxH) | 1.5U, 440mm×411.1mm×94.9mm (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)                         |

Certifications

|     |  |
|-----|--|
| CE  | EN55022, EN55024, EN50130-4, EN60950-1 |
| FCC | Part15 subpartB,ANSI C63.4-2014        |
| UL  | UL60950-1+CAN/CSA C22.2 No.60950-1     |

Ordering Information

| Type           | Part Number          | Description   |
|----------------|----------------------|---|
| 16 Channel NVR | DHI-NVR5416-16P-4KS2 | 16 Channel 1.5U 16PoE 4K&H.265 Pro Network Video Recorder |
| 32 Channel NVR | DHI-NVR5432-16P-4KS2 | 32 Channel 1.5U 16PoE 4K&H.265 Pro Network Video Recorder |
| 64 Channel NVR | DHI-NVR5464-16P-4KS2 | 64 Channel 1.5U 16PoE 4K&H.265 Pro Network Video Recorder |
| Accessories    | ESS1504C             | 4 HDDs eSATA Storage                                      |
|                | ESS1508C             | 8 HDDs eSATA Storage                                      |

Accessories



ESS1504C



ESS1508C

Dimensions (mm)

