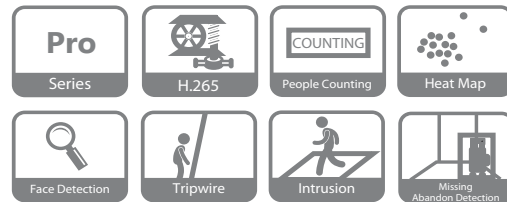**alhua** TECHNOLOGY

# DHI-NVR5208/16/32-4KS2

## 8/16/32Channel 1U 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
- HDMI/VGA simultaneous video output
- 3D intelligent positioning with Dahua PTZ camera

| Pro Series | H.265 | COUNTING People Counting | Heat Map |
|---|---|---|---|
| Face Detection | Tripwire | Intrusion | Missing Abandon Detection |

### System Overview

Dahua's NVR5000-4KS2 network video recorder offers a 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.

Easy4ip
You can monitor at anytime and anywhere with Easy4ip. There are 2 modes Easy4ip web client and mobile app. With this function, you can manage your devices more conviently.

Intelligent Video System (IVS)
With built-in intelligent video analytics, 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.

Heat Map
The NVR's Heat Map option highlights the areas with the highest concentration of people. This information can then be exported into a customized report to assist in business or forensic analysis.

ANPR
Automatic Number Plate Recognition available for convenient entrance/exit management. Support plate recognition, 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.

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.

**Onvif**

IDMS

## Technical Specification

### System

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

### Audio and Video

| | |
|---|---|
| IP Camera Input | 8/16/32 Channel |
| Two-way Talk | 1 Channel Input, 1 Channel Output, RCA |

### Display

| | |
|---|---|
| Interface | 1 HDMI (up to 3840 x 2160 ), 1 VGA |
| Resolution | 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768 |
| Multi-screen Display | 8CH: 1/4/8/9<br>16CH: 1/4/8/9/16<br>32CH: 1/4/8/9/16/25/36 |
| OSD | Camera title, Time, Video loss, Camera lock, Motion detection, Recording |

### Recording

| | |
|---|---|
| Compression | Smart H.265+/H.265/Smart H.264+/H.264/MJPEG |
| Resolution | 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc. |
| Record Rate | 320Mbps |
| Bit Rate | 16Kbps ~ 20Mbps Per Channel |
| Record Mode | Manual, Schedule (Regular, MD(Motion Detection) , Alarm, IVS), 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, Alarm Out, Video Push, Email, Snapshot, Buzzer and Screen Tips |
| Video Detection | Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering |
| Alarm input | 4 Channel, Low Level Effective, Green Terminal Interface |
| Relay Output | 2 Channel, NO/NC Programmable, Green Terminal Interface |

### Playback and Backup

| | |
|---|---|
| Sync Playback | 8CH: 1/4/9<br>16/32CH: 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 |

### Third-party Support

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

### Network

| | |
|---|---|
| Interface | 1 RJ-45  Ports (10/100/1000Mbps) |
| Ethernet Port | 1 Independent 1000Mbps Ethernet Port |
| PoE | N/A |
| Network Function | HTTP, HTTPs, 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, etc.) |
| Optical Fiber Interface | N/A |
| Max. User Access | 128 users |
| Smart Phone | iPhone, iPad, Android |
| Interoperability | ONVIF 2.4, CGI Conformant |

### Storage

| | |
|---|---|
| Internal HDD | 2 SATA III Ports, Up to 8 TB capacity for each HDD |
| HDD Mode | Single |
| eSATA | N/A |
| SAS | N/A |

### Auxiliary Interface

| | |
|---|---|
| USB | 2 USB Ports (1 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, DC12V/4A |
| Power Consumption | <9.5W (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 | 1U, 375mm x 281.5mm x 56mm ;<br>(14.8" x 11.1" x 2.2") |
| Net Weight | 1.6kg (3.5 lb) (without HDD) |
| Gross Weight | 3.2kg (7.1 lb) |

### Certifications

| | |
|---|---|
| CE | EN55022, EN55024, EN50130-4, EN60950-1 |
| FCC | Part 15 Subpart B, ANSI C63.4-2014 |
| UL | UL 60950-1 and CAN/CSA C22.2 No.60950-1 |

## Ordering Information

| Type | Part Number | Description |
| --- | --- | --- |
| 8 Channel NVR | DHI-NVR5208-4KS2 | 8 Channel 1U 4K&H.265 Pro Network Video Recorder |
| 16 Channel NVR | DHI-NVR5216-4KS2 | 16 Channel 1U 4K&H.265 Pro Network Video Recorder |
| 32 Channel NVR | DHI-NVR5232-4KS2 | 32 Channel 1U 4K&H.265 Pro Network Video Recorder |
| Accessories | N/A | N/A |

## Dimensions (mm)