

# DHI-NVR2104-P-4KS2

4 Channel Smart 1U 1HDD 4PoE Lite 4K H.265 Network Video Recorder



- Smart H.265+/Smart H.264+/H.265/H.264
- Max 80Mbps incoming bandwidth
- Up to 8Mp resolution preview&playback
- Up to 1ch@8MP/4ch@1080P decoding
- HDMI/VGA simultaneous video output
- Support IPC UPnP, 4PoE ports



## Series Overview

Dahua NVR2000-4KS2 is capable of transmitting 8MP image. It helps to save up to 50% HDD and storage space with its H.265 decoding technology compared with H.264.

Due to its cost-effective and easy-to-install design, this NVR is ideal for a wide range of applications such as home safety, grocery, warehouse, 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

### 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.

### 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.

### Smart Codec

With advanced scene-adaptive rate control algorithm, Dahua smart codec technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

### 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 device and then recorded in it.

### 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

### System

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

### Audio and Video

|                 |                                        |
|-----------------|----------------------------------------|
| IP Camera Input | 4 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    | 1ch@8MP 30fps, 4ch@1080P 30fps                               |
| Multi-screen Display | 1/4                                                          |
| OSD                  | Camera title, Time, Camera lock, Motion detection, Recording |

### Recording

|                 |                                                                            |
|-----------------|----------------------------------------------------------------------------|
| Compression     | Smart H.265+/H.265/Smart H.264+/H.264                                      |
| Resolution      | 8MP/6MP/5MP/4MP/3MP/1080P/720P/D1&etc.                                     |
| Record Rate     | 80Mbps                                                                     |
| Bit Rate        | 16Kbps ~ 20Mbps Per Channel                                                |
| Record Mode     | Manual, Schedule (Continuous, MD (Motion Detection), Alarm, IVS)           |
| 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, Snapshot, and Screen Tips |
| Video Detection | Motion Detection, MD Zones: 396 (22 × 18), and Tampering    |
| Alarm input     | N/A                                                         |
| Relay Output    | N/A                                                         |

### Playback and Backup

|                   |                                                                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sync Playback     | 1/4                                                                                                                                                           |
| Search Mode       | Time /Date, 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, Shuffle, Backup Selection, Digital Zoom |
| Backup Mode       | USB Device/Network                                                                                                                                            |

### Third-party Support

|                     |             |
|---------------------|-------------|
| Third-party Support | Onvif, RTSP |
|---------------------|-------------|

### Network

|                         |                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Interface               | 1 RJ-45 port (10/100Mbps)                                                                                                             |
| PoE                     | 4 ports (IEEE802.3at/af)                                                                                                              |
| Network Function        | HTTP/HTTPS, TCP/IP, IPv4/IPv6, RTSP, UDP, NTP, DHCP, DNS, IP Filter, DDNS, 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, SDK, CGI                                                                                                                   |

### Storage

|              |                                                                                                             |
|--------------|-------------------------------------------------------------------------------------------------------------|
| Internal HDD | 1 SATA III port, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature |
| HDD Mode     | Single                                                                                                      |
| eSATA        | N/A                                                                                                         |

### Auxiliary Interface

|       |                         |
|-------|-------------------------|
| USB   | 2 ports (2 Rear USB2.0) |
| RS232 | N/A                     |
| RS485 | N/A                     |

### Electrical

|                   |                                              |
|-------------------|----------------------------------------------|
| Power Supply      | Single, DC48V/1.25A                          |
| Power Consumption | NVR: <5.3W (without HDD)                     |
|                   | PoE: Max 25.5w for single port, 50w in total |

### Environmental

|                      |                                             |
|----------------------|---------------------------------------------|
| Operating Conditions | -10°C to +55°C (+14°F to +131°F), 86~106kpa |
| Storage Conditions   | 0°C to +40°C (+32°F to +104°F), 30~85% RH   |

### Construction

|                   |                                                              |
|-------------------|--------------------------------------------------------------|
| Dimensions(W×D×H) | Smart 1U, 204.6 mm × 204.6 mm × 45.6 mm (8.1" × 8.1" × 1.8") |
| Net Weight        | 0.45 kg (0.99 lb) (without HDD)                              |
| Gross Weight      | 1.5 kg (3.31 lb) (without HDD)                               |

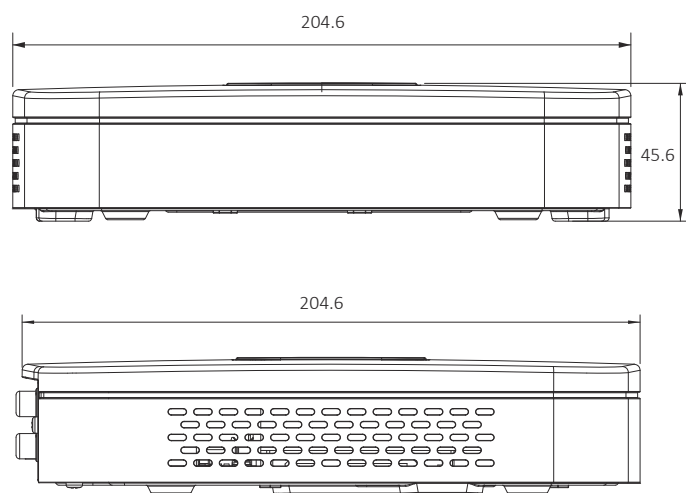
### Certifications

|     |                                        |
|-----|----------------------------------------|
| 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                                                  |
|---------------|--------------------|--------------------------------------------------------------|
| 4 Channel NVR | DHI-NVR2104-P-4KS2 | 4 Channel Smart 1U 4PoE Lite 4K H.265 Network Video Recorder |
| Accessories   | N/A                | N/A                                                          |

### Dimensions (mm)



## Rear Panel

