

# DHI-NVR4204-4KS2/L

## 4 Channel 1U 2HDDs Network Video Recorder



### Series Overview

Dahua NVR4000-4KS2/L is introduced as the 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 Profile S, T, G protocol, enabling interoperability with IP cameras.

### Functions

#### Perimeter Protection by Camera

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

#### Face Detection by Camera

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

#### 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.

- New 4.0 user interface, Security baseline 2.1
- H.264, H.265, Smart H.264+, and Smart H.265+. H.265 auto switch
- Max. decoding capability: 8 × 1080p@30 fps. Supports adaptive decoding
- Supports mainstream cameras of ONVIF and RTSP protocols
- P2P remote surveillance, video play on mobile device
- VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K
- AI by Camera: Face detection, perimeter protection, IVS, people counting, heat map, and SMD
- Supports remote configuration and management of IPC, such as setting parameters, getting information, and upgrading IPC of the same model in batches



#### People Counting by Camera

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

#### 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.

#### 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      | Industrial-grade embedded processor |
| OS                  | Embedded Linux                      |
| Operation Interface | Web/operating in local GUI          |

### Perimeter Protection by Camera

|             |   |
|-------------|---|
| Performance | 4 channels  |
| AI Search   | Search for pictures by channel, time and event type |

### Face Detection by Camera

|                 |   |
|-----------------|---|
| Performance     | 4 channels  |
| Face Attributes | 6 attributes: Gender, age, glasses, expression, mouth mask, and beard |
| AI Search       | Search for pictures by channel, time and face attributes              |

### SMD Plus by Camera

|             |  |
|-------------|--|
| Performance | 4 channels                                       |
| AI Search   | Search by target classification (human, vehicle) |

### Video

|                           |  |
|---------------------------|--|
| Access Channel            | 4  |
| Network Bandwidth         | Access: 160 Mbps; Storage: 160 Mbps; Forward: 64 Mbps  |
| Resolution                | 8MP; 6MP; 5MP; 4MP; 3MP; 1080p; 720p; D1   |
| Decoding Capability       | 4 × 1080p@30 fps   |
| Video Output              | 1 × VGA output, 1 × HDMI output, supports simultaneous video sources output for VGA and HDMI |
| Multi-screen Display      | 1, 4 views   |
| Third-party Camera Access | ONVIF; RTSP  |

### Compression

|       |   |
|-------|---|
| Video | Smart H.265/H.265/Smart H.264/H.264/MJPEG |
| Audio | PCM/G711A/G711U/G726/AAC                  |

### Network

|                     |  |
|---------------------|--|
| Network Protocol    | HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera; DVR; NVS; etc.); P2P; auto register |
| Mobile Phone Access | Android; iOS   |
| Interoperability    | ONVIF(profile T/S/G); CGI; SDK   |
| Browser             | Chrome; IE9 or later; firefox  |

### Record Playback

|                        |  |
|------------------------|--|
| Multi-channel Playback | Up to 4 channels for playback                                  |
| Record Mode            | Manual record; alarm recording; SMD recording; smart recording |
| Storage                | Local HDD; network   |
| Backup                 | USB storage device   |

### Playback Function

1. Play/pause/stop/slow/quick/backward/by frame
2. Full screen, backup (video clip/file), partial zoom in, and audio on/off

### Storage

|            |     |
|------------|-----|
| Disk Group | Yes |
|------------|-----|

### Alarm

|                   |  |
|-------------------|--|
| General Alarm     | Motion detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarm                         |
| Anomaly Alarm     | Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cybersecurity exception |
| Intelligent Alarm | Face detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and SMD alarms        |
| Alarm Linkage     | Recording, snapshot, audio, buzzer, log, preset, and email   |

### External Port

|              |  |
|--------------|--|
| Audio Input  | 1 × RCA input  |
| Audio Output | 1 × RCA output   |
| HDD          | 2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature |
| Alarm Input  | 4  |
| Alarm Output | 2  |
| USB          | 2(1 × front USB2.0; 1 × back USB2.0)   |
| HDMI         | 1 (supports up to 4K resolution output)  |
| VGA          | 1  |
| Network      | 1 × RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port  |

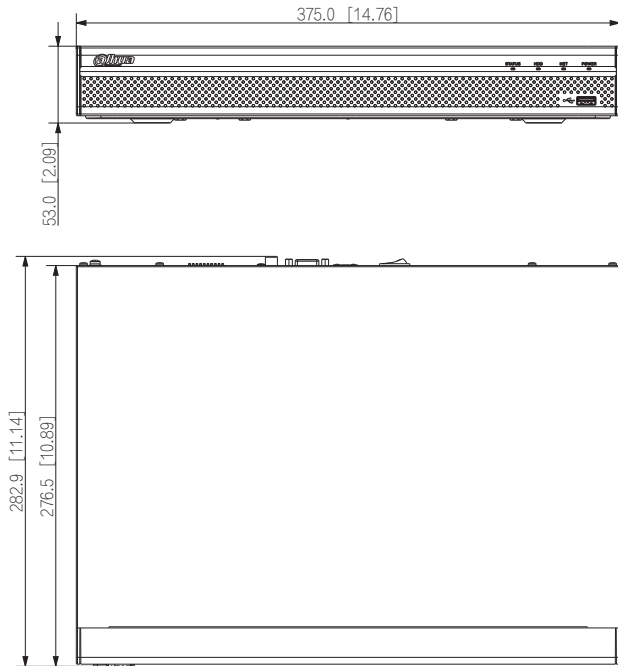
### General Parameter

|                      |  |
|----------------------|--|
| Power Supply         | DC12 V, 4 A  |
| Power Consumption    | < 10 W (HDD not included, idling)  |
| Net Weight           | 1.51 kg (3.33 lb)  |
| Gross Weight         | 2.76 kg (6.08 lb)  |
| Product Dimensions   | 375 mm × 282.4 mm × 53 mm (14.76" × 11.12" × 2.09") (W × L × H)  |
| Package Dimensions   | 141 mm × 433 mm × 366 mm (5.55" × 17.05" × 14.41") (W × L × H)   |
| Operating Conditions | -10 °C to +55 °C (+10 °F to +131 °F)   |
| Storage Conditions   | 0 °C to +40 °C (32 °F to 104 °F)   |
| Operating Humidity   | 10%~93%  |
| Storage Humidity     | 30%~85%  |
| Operating Altitude   | 3000 m (9842.52 ft)  |
| Installation         | Desktop mounted  |
| Certifications       | CE: EN62368-1; EN55032, EN55024, EN55035, EN61000-3-2, EN61000-3-3 EN50130-4<br>FCC: Part 15 Subpart B |

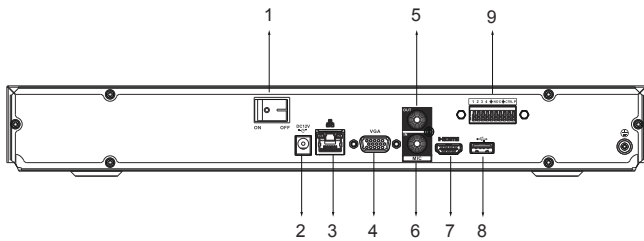
### Ordering Information

| Type          | Model              | Description                               |
|---------------|--------------------|---|
| 4 Channel NVR | DHI-NVR4204-4KS2/L | 4 Channel 1U 2HDDs Network Video Recorder |

### Dimensions (mm[inch])



### Panels



- |                      |                      |
|----------------------|----------------------|
| 1 Power Switch       | 2 DC 12V Power Input |
| 3 Network Port       | 4 VGA Port           |
| 5 Mic Out            | 6 Mic In             |
| 7 HDMI Port          | 8 USB Port           |
| 9 Alarm Input/Output |                      |