

# DHI-NVR2104HS-S3

4 Channel Compact 1U 1HDD Network Video Recorder



- Smart H.265+/H.265/Smart H.264+/H.264 decoding format
- Max. decoding capability: 6 × 1080p@30 fps. Supports adaptive decoding
- AI by camera: perimeter protection, and SMD Plus
- Connected to the third-party network cameras
- Security baseline 2.1

## Series Overview

Dahua Lite series NVR is easy to install, cost effective and compatible with a wide variety of third-party devices, providing a great solution for small and medium surveillance systems. It is ideal for home safety, supermarkets, warehouses, educational institutions, and financial institutions.

## Functions

### Perimeter Protection by Camera

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

### 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.

### AI Search

With AI search, operators can search for videos by the attributes of targets and event types, which helps them to quickly and efficiently investigate where and when targets appeared and events took place.

## Technical Specification

### System

|                     |                                     |
|---------------------|-------------------------------------|
| Main Processor      | Industrial-grade embedded processor |
| Operating System    | Embedded Linux                      |
| Operating Interface | Web; Local GUI                      |

### AI

|              |                                |
|--------------|--------------------------------|
| AI by Camera | Perimeter protection; SMD Plus |
|--------------|--------------------------------|

### Perimeter Protection

|                                                            |   |
|------------------------------------------------------------|---|
| Perimeter Performance of AI by Camera (Number of Channels) | 4 |
|------------------------------------------------------------|---|

### SMD Plus

|                    |                                                                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SMD Plus by Camera | 4-channel SMD Plus (AI by camera), secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Audio and Video

|                           |                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------|
| Access Channel            | 4 channels                                                                                                      |
| Network Bandwidth         | Access: 80 Mbps; Storage: 80 Mbps; Forward: 60 Mbps                                                             |
| Resolution                | 12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1                                                                         |
| Decoding Capability       | 1-channel 12MP@30 fps; 1-channel 8MP@30 fps; 2-channel 5MP@30 fps; 3-channel 4MP@30 fps; 6-channel 1080p@30 fps |
| Video Output              | 1 × VGA, 1 × HDMI (simultaneous)                                                                                |
| Multi-screen Display      | 1, 4 views                                                                                                      |
| Third-party Camera Access | Onvif                                                                                                           |

### Compression Standard

|                   |                                        |
|-------------------|----------------------------------------|
| Video Compression | Smart H.265; H.265; Smart H.264; H.264 |
| Audio Compression | PCM; G711A; G711U; G726                |

Network

|                     |                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Protocol    | HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); P2P |
| Mobile Phone Access | Android; iOS                                                                                                                                               |
| Interoperability    | ONVIF (profile T/S/G); CGI; SDK                                                                                                                            |
| Browser             | Chrome; IE 9 or later; Firefox                                                                                                                             |

Recording Playback

|                        |                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Multi-channel Playback | Up to 4 channels                                                                                                                                      |
| Record Mode            | Manual record; alarm record; motion detection record; schedule record                                                                                 |
| Storage Method         | Local HDD and network                                                                                                                                 |
| Backup Method          | USB device                                                                                                                                            |
| Playback Function      | 1. Play; pause; stop; fast forward; fast backward; rewind; play by frame<br>2. Full screen; backup (video clip/file); partially zoom in; audio on/off |

Alarm

|                   |                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------|
| General Alarm     | Motion detection; privacy masking; video loss; PIR alarm                                                  |
| Anomaly Alarm     | Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; cyber security exception |
| Intelligent Alarm | Perimeter protection; SMD Plus                                                                            |
| Alarm Linkage     | Recording; snapshot; buzzer; log; preset; email; tour                                                     |

Port

|               |                                                                                        |
|---------------|----------------------------------------------------------------------------------------|
| Audio Input   | 1                                                                                      |
| Audio Output  | 1                                                                                      |
| HDD Interface | 1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature |
| USB           | 1 front USB 2.0 port, 1 rear USB 2.0 port                                              |
| HDMI          | 1                                                                                      |
| VGA           | 1                                                                                      |
| Network Port  | 1 × RJ-45, 10/100 Mbps self-adaptive Ethernet port                                     |

General

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Power Supply          | 12 VDC, 1.5 A                                                    |
| Power Consumption     | Total output of NVR is ≤ 10 W (without HDD)                      |
| Net Weight            | 0.81 kg (1.79 lb)                                                |
| Gross Weight          | 1.33 kg (2.93 lb)                                                |
| Product Dimensions    | 260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87") (W × L × H) |
| Packaging Dimensions  | 89 mm × 333 mm × 315 mm (3.50" × 13.11" × 12.40") (W × L × H)    |
| Operating Humidity    | 10%–93% (RH)                                                     |
| Operating Temperature | –10 °C to +55 °C (14 °F to +131 °F)                              |
| Installation          | Rack or desktop                                                  |

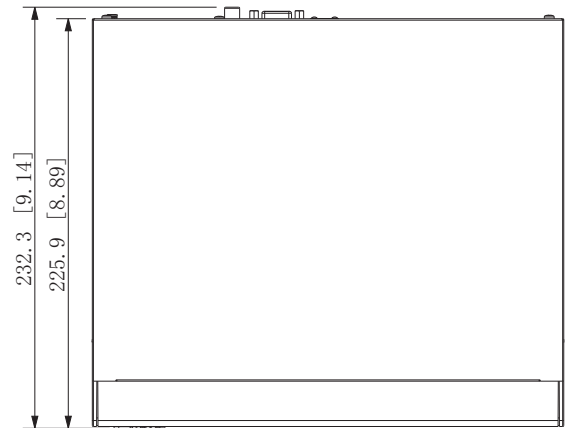
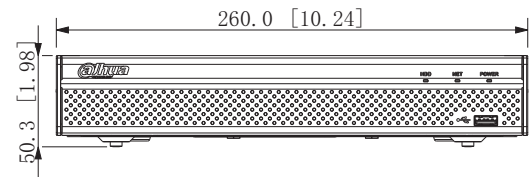
Certifications

CE: EN62368-1; EN55032; EN55024; EN55035; EN61000-3-2; EN61000-3-3; EN50130-4  
FCC: Part 15 Subpart B

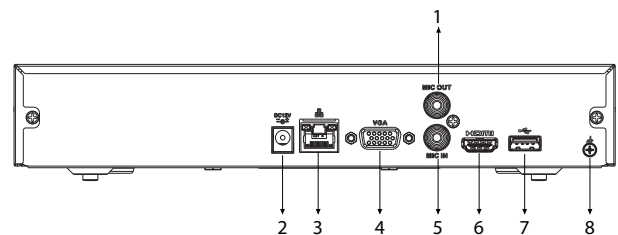
Ordering Information

| Type          | Model            | Description                                      |
|---------------|------------------|--------------------------------------------------|
| 4 Channel NVR | DHI-NVR2104HS-S3 | 4 Channel Compact 1U 1HDD Network Video Recorder |

Dimensions (mm[inch])



Panels



- 1 AUDIO OUT, RCA Connector
- 2 Power Input
- 3 Network Port
- 4 VGA Port
- 5 AUDIO IN, RCA Connector
- 6 HDMI Port
- 7 USB Port
- 8 Ground