

DHI-NVR4108-4KS2/L

8 Channel Smart 4K&H.265 Lite Network Video Recorder



- New UI interface with more easier operation experience
- Smart H.265+/ Smart H.264+
- P2P remote surveillance, video play on mobile device
- 8-ch@1080P(30FPS), self-adaptive decoding capability
- Supports mainstream cameras of ONVIF and RTSP protocol
- VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K
- Remote configuration and management of IPCs, such as setting parameters, acquiring information and upgrading IPCs of the same model in batches
- DHCP(Dynamic Host Configuration Protocol), HTTP(Hypertext Transfer Protocol), NTP(Network Time Protocol) and DDNS(Dynamic Domain Name System)

System Overview

This network video recorder is a highly cost-effective product, providing functions such as local live view, multi-screen display, real-time storage on local HDD, fast operation by mouse, remote management and control.

Functions

New User Interface

The new web and local GUI interface uses flat design which is more consistent with users' habits. Functional modules are divided clearer and easier to understand.

Decoding (Smart H.265+/Smart H.264+)

Dahua smart encoding (H.265+/ H.264+) is the optimized implementation of (H.265/H.264) codec that uses a scene-adaptive encoding strategy, providing more efficiency in the encoding process and higher video quality, and reducing the cost of storage and transmission significantly.

This NVR supports the corresponding decoding.

SMD by Camera

SMD refers to Smart Motion Detection. With Deep-Learning Algorithm, Dahua SMD Plus filters the motion detection alarm triggered by non-concerned target and recognize human and vehicle effectively, sending alarms when human and vehicle intrudes. Extract and classify human and vehicles from massive video data, easy for end users to trace historical information and analyze. Human & Vehicle optional for playback to achieve quick target search, saving event retrieval time.

Security Center

Security Center provides a whole picture of device security and helps protect the NVR with security scan, attack defense, certificate management, audio and video encryption and security settings. Security warnings will be sent through many ways such as email, message, voice prompts.

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.

Intelligent Video System

Working with IVS-enabled IP cameras, the NVR recognizes and records video that contains IVS data on all IP channels. The NVR records standard intelligence at-the-edge features, as well as premium IVS features that detect abandoned or missing objects, Tripwire violations, and intrusion violations. The NVR is also capable of recording business analysis data Facial Detection, People Counting, and Heat Map from IP cameras with built-in Intelligent Business Analytics.

Application

This NVR is suitable for places such as retail stores, families, courtyards and public areas.

Technical Specification

System

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

Video

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|---------------------------|--|
| Access Channel | 8 channels |
| Network Bandwidth | 80 Mbps for access, 80 Mbps for storage and 60 Mbps for forwarding |
| Resolution | 8MP/5MP/4MP/3MP/1080P/720P/D1/CIF |
| Decoding Capability | 8-ch@1080P(30FPS) |
| Video Output | 1 VGA/1 HDMI simultaneous video output, maximum resolution 4K |
| Multi-screen Display | 1/4/8/9 |
| Third Party Camera Access | ONVIF, RTSP |

Compression

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|-------|---------------------------------------|
| Video | Smart H.265+/H.265/Smart H.264+/H.264 |
| Audio | G.711A/G.711U/PCM/G726 |

Network

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|---------------------|---|
| Network Protocol | HTTP, HTTPS, TCP/IP, IPv4, RTSP, UDP, NTP, DHCP, DNS, P2P |
| Mobile Phone Access | iDMSS (iOS)/gDMSS (Android) |
| Access Standard | ONVIF (profile S), CGI, SDK |
| Browser | Chrome, IE9 or above, Firefox |

Record Playback

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|------------------------|--|
| Multi-channel Playback | Up to 8 channels playback |
| Record Mode | Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording |
| Storage | Local HDD |
| Backup | USB device |
| Playback Function | 1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off |

Alarm

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|---------------|--|
| General Alarm | Motion detection, privacy masking, video loss, IPC alarm |
| Anomaly Alarm | Front-end device going offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly |
| Alarm Linkage | Video recording, snapshot, log, preset point, tour |

External Port

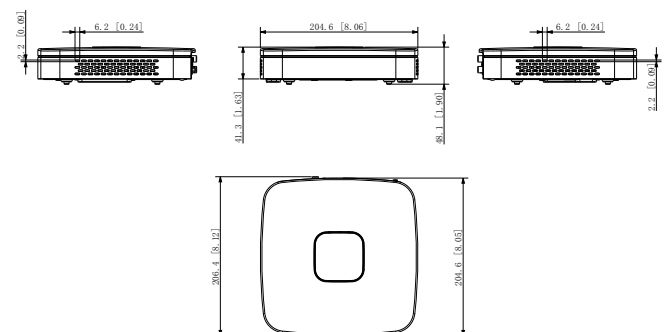
| | |
|-----|---|
| HDD | 1 SATA port, up to 6 TB for a single HDD. The maximum HDD capacity varies with environment temperature. |
| USB | 2 rear USB 2.0 |

| | |
|------------|----------------------------|
| HDMI | 1 |
| VGA | 1 |
| RCA Input | 1 |
| RCA Output | 1 |
| Network | 1 RJ-45 port (10/100 Mbps) |

General Parameter

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|-----------------------|---|
| Power Supply | DC12V, 2A |
| Power Consumption | Total output of NVR is ≤ 10W (without HDD) |
| Net Weight | 0.45kg (0.99 lb) (without HDD) |
| Gross weight | 1.07kg (2.36 lb) (without HDD) |
| Dimensions | 205.3mm × 204.2mm × 45.6mm (W × L × H) 8.08 inch × 8.04 inch × 1.80 inch (W × L × H) |
| Packaging Dimensions | 96 mm × 364 mm × 261 mm (W × L × H) 3.78 inch × 14.33 inch × 10.28 inch (W × L × H) |
| Operating Temperature | -10°C to +50°C (+14°F to +122°F) |
| Storage Temperature | 0°C to +40°C (+32°F to +104°F) |
| Operating Humidity | 10%–90% |
| Storage Humidity | 30%–85% |
| Operating Altitude | 3000 m (9843 ft) |
| Installation | Desktop mounting |
| Certification | CE/FCC/UL |

Dimensions (mm[inch])



Rear Panel

