

DHI-NVR4108/4116HS-8P-4KS2

8/16 Channel Compact 1U 8PoE 4K&H.265 Lite Network Video Recorder



- Smart H.265+/H.265/Smart H.264+/H.264
- Max 80Mbps Incoming Bandwidth
- Up to 8MP Resolution for Preview and Playback
- Up to 2ch@4K/8ch@1080P decoding
- HDMI/VGA simultaneous video output
- Support IPC UPnP, 8PoE ports



System Overview

Dahua NVR4000-4KS2 is introduced as the first 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 2.4 protocol, enabling interoperability with IP cameras.

Functions

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 H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

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.

ANR (Automatic Network Replenishment Technology)

Network Video Recorders with the ANR function automatically store video data on an IP camera SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

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 NVR 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 | Quad-core embedded processor |
| Operating System | Embedded LINUX |

Audio and Video

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

Display

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|----------------------|--|
| Interface | 1 HDMI, 1 VGA |
| Resolution | HDMI: 3840×2160, 1920×1080, 1280×1024, 1280×720 |
| | VGA: 1920×1080, 1280×1024, 1280×720 |
| Decoding Capacity | 2ch@4K(30fps)/8ch@1080P(30fps) |
| Multi-screen Display | 8CH: 1/4/8/9 |
| | 16CH: 1/4/8/9/16 |
| OSD | Camera title, Time, Camera lock, Motion detection, Recording |

Recording

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|-----------------|---|
| Compression | Smart H.265+/H.265/Smart H.264+/H.264 |
| Resolution | 8Mp/ 6Mp/ 5MP/ 4MP/ 3MP/ 1080P/ 1.3MP/ 720P etc. |
| Record Rate | 80Mbps |
| Bit Rate | 16Kbps ~ 20Mbps Per Channel |
| Record Mode | Manual, Schedule (Regular, Continuous), MD (Video detection: Motion Detection, Tampering, Video Loss), Stop |
| Record Interval | 1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec |

Video Detection and Alarm

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|-----------------|---|
| Trigger Events | Recording, PTZ, Tour, Video Push, Email, Snapshot, Buzzer and Screen Tips |
| Video Detection | Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering |
| Alarm input | N/A |
| Alarm output | N/A |

Playback and Backup

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|-------------------|--|
| Playback | 8CH: 1/4/9 |
| | 16CH: 1/4/9/16 |
| Search Mode | Time /Date, MD and Exact Search (accurate to second), Smart search |
| Playback Function | Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom |
| Backup Mode | USB Device/Network |

Third-party Support

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|---------------------|---|
| Third-party Support | Arecont Vision, Airlive, AXIS, Canon, Dynacolor, JVC, LG, Panasonic, Pelco, PSIA, Samsung, Sanyo, Sony, Watchnet and more |
|---------------------|---|

Network

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|------------------|--|
| Interface | 1 RJ-45 Port (10/100Mbps) |
| Ethernet Port | 1 Independent 100Mbps Ethernet Port |
| PoE | 8 Ports(IEEE802.3at/af) |
| Network Function | HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, SNMP, IP Search (Support Dahua IP camera, DVR, NVS, etc.), Easy4ip |
| Max. User Access | 128 users |
| Smart Phone | iPhone, iPad, Android |
| Interoperability | ONVIF 2.4, SDK, CGI |

Storage

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|--------------|---|
| Internal HDD | 1 SATA III Port, Up to 6 TB capacity for each HDD |
| HDD Mode | Single |

Auxiliary Interface

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|-------|--|
| USB | 2 ports(1 Rear USB2.0, 1 Front USB2.0) |
| RS232 | N/A |
| RS485 | N/A |

Electrical

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|-------------------|--|
| Power Supply | DC48V/2A |
| Power Consumption | NVR: <8.3W (Without HDD) |
| | PoE: Max 25.5w for single port, 80w in total |

Environmental

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|----------------------|---|
| 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

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|--------------|--|
| Dimensions | Compact 1U, 260mm×224.9mm×47.6mm (10.2" x 8.9" x 1.9") |
| Net Weight | 0.8kg (1.76 lb) (without HDD) |
| Gross Weight | 1.6kg(3.53 lb)(without HDD) |

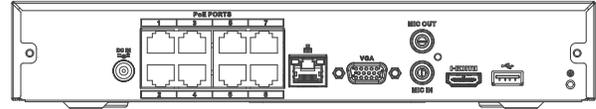
Certifications

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|-----|--|
| 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-NVR4108HS-8P-4KS2 | 4 Channel Compact 1U 8PoE 4K&H.265 Lite Network Video Recorder |
| 8 Channel NVR | DHI-NVR4116HS-8P-4KS2 | 8 Channel Compact 1U 8PoE 4K&H.265 Lite Network Video Recorder |

Rear Panel



Dimensions (mm)

