

DHI-NVR2108HS-8P-4KS2

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



- · H.265/H.264 codec decoding
- · 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, 8PoE ports











System 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

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.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Automatic Network Replenishment (ANR) 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.

Easy4ip

The Easy4ip 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.

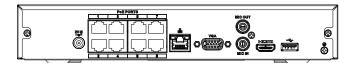


| System Main Processor Desire on embedded processor Third party Support Concent Vision, 300 bits, the Advent Control, Principal Section (Microscope) Operating System Cinbedded UNUX Interface 1 RA-45 sort (10/100/1000/1000/1000/1000/1000/1000/1 | Technical Specification | | Third-party Support | |
|--|---------------------------|--|-------------------------|--|
| Main Processor Deal core embedded processor NetWork Samoung, Samyas, Sony, Videobee, and more Operating System Enbedded LNUX Interface 1.84 45 pain ptQ/000/1000Mbpg) Audio and Video PoErrain Input 8 Chainel PoE A parts (\$FFRRO) Aut/al) Processor Input 8 Chainel Input, 1 Chainel Input, 1 Chainel Pout, 1 Chainel Output, 1 Chainel Output, 1 Chainel Pout, 1 Chainel Pou | System | | | |
| Audio and Video IP Camera Input S Channel Por Report (IFRED) 241/401 Two way Talk 1 Channel Input, 1 Channel Culput, 2CA Display Interface 1 HUM1, 3 VGA Resolution WCM1 1280-1080, 1280-1030, 1280-10304, 1280-10304, 1280-1030, 1280-1030, 1280-10304, 1280-1030, 1280-1030, 1280-10304, 1280-1030, 1280-10304, 1280-1030, 1280-10304, 1280-1030, 1280-10304, 1280-1030, 1280-10304, 1280-1030, 1280-10304, 1280-1030, 1280-10304, 1280-1030, 1280-10304, 1280-1030, 1280-10304, 1280-1030, 1280-10304, 1280-1030, 1280-10304, 1280-1030, 1280-10304, 1280-1030, 1280-10304, 1280-10304, 1280-1030, 1280-10304, 1280-1030, 1280-10304, 1280-1030, 1280-10304, 128 | Main Processor | Dual-core embedded processor | Third-party Support | |
| PoE Sort 9 EBB07_324761 Two-way Talk 1 channel raput, 1 channel Cutput, RCA Display | Operating System | Embedded LINUX | Network | |
| Network Function | Audio and Video | | Interface | 1 RJ-45 port (10/100/1000Mbps) |
| Display | IP Camera Input | 8 Channel | PoE | 8 ports (IEEE802.3at/af) |
| Display Display Picamera, BVR, NVS and exc. Lasy-tip Interface 1H0MI, 1VGA Optical Fiber Interface N/A Resolution 4MMI, 3800-2180, 1920-1080, 1280-1024, 1280-1024, 1280-1024, 1280-1024, 1280-1024, 1280-1024, 1280-1024, 1280-1024, 1280-1024, 1280-1024, 1280-1024 5mart Phone 1280 uers Decoding Capacity 1/h88MP3 30tps, 4ch €1030P 30tps 5torage 15474 lil Port, up to 678 capacity for cosch H00 OSD Camera stile, Time, Camera lock, Motion detection, Recording 4mbD Mode 15474 lil Port, up to 678 capacity for cosch H00 Recording 14265/4244 2MXIllary Interface Record flate 8MMy8MYSMMY3MMY2M0909/7209/1284ct. 2MXIllary Interface Record flate 18thps = 20Mbps Fer channel 85322 N/A Record Mode Manual, Schedulergegladi Continuous, MD, 3ctop Power Supply Single, DC48W2A Record Interval 1*120 min ledefaults 60 min, Pre-record. 1*30 sec, because the properties of the pre-record 1*30 sec, sec mem Tays Power Consumption Notice, 580 (without H00) Video Detection and Allarmental Monitor Detection, MD Zones: 396 (22 x 18), and through the pre-record 1*30 sec, sec mem Tays Environmental 10°C*+55°C (±14°F*+13°F, 86° 106 pa a min total flate) | Two-way Talk | 1 Channel Input, 1 Channel Output, RCA | Network Function | |
| HDML, 1 VGA | Display | | Network Function | |
| Month 360-720 1000-1000, 1280-1004, 1280-1004, 1280-720 1000-720 | Interface | 1 HDMI, 1 VGA | Optical Fiber Interface | N/A |
| Smart Phone Fibrone, PagA, Android Fibrone, FagA, FagA, Android Fibrone, FagA, F | Resolution | | Max. User Access | 128 users |
| Decoding Capacity 1ch®8MP 30fps, 4ch®1080P 30fps Storage Multi-screen Display 1/4/8/9 Internal HDD 1.5ATA III Port, up to 6T8 capacity for each HDD OSD Camera title, Time, Camera lock, Motion detection, Recording HDD Mode Single Recording eSATA N/A Compression H.265/H.264 Auxiliary Interface Resolution 8MP/6MP/SMP/4MP/3MP/1080P/ 720P/ D18etc. USB 2 ports (1 Rear USB2.0, 1 Front USB2.0) Record Rate 80Mbps RS232 N/A Record Mode Manual, Schedule(Regular(continuous), MD, Stop Power Supply Single, DC48W/2A Record Interval 1°120 min (Idefault 60 min), Pre-record: 1°30 sec, post record: 1°20 soc, post | | | Smart Phone | iPhone, iPad, Android |
| Multi-screen Display 1/4/8/9 Internal HDD 1 sATA III Port, up to 6TB capacity for each HDD | | VGA: 1920×1080, 1280×1024, 1280×720 | Interoperability | ONVIF 2.4, SDK, CGI |
| No. Camera Itile, Time, Camera lock, Motion detection, Recording | Decoding Capacity | 1ch@8MP 30fps, 4ch@1080P 30fps | Storage | |
| Recording Record Rate Resolution Record Rate Record | Multi-screen Display | 1/4/8/9 | Internal HDD | 1 SATA III Port, up to 6TB capacity for each HDD |
| Compression H.265/H.264 Auxiliary Interface | OSD | | HDD Mode | Single |
| Resolution 8MP/6MP/SMP/4MP/3MP/1080P/720P/D1&etc. Record Rate 80Mbps | Recording | | eSATA | N/A |
| Record Rate 80Mbps RS232 N/A RS232 N/A RS485 N/A RS485 N/A RS485 N/A Record Mode Manual, Schedule(Regular(Continuous), MD, Stop Power Supply Single, DC48V/2A Record Interval 1°120 min (default: 60 min), Pre-record: 1°30 sec, Post-record: 10°300 sec Post-record: 10 | Compression | H.265/H.264 | Auxiliary Interface | |
| Record Rate 80Mbps | Resolution | 8MP/6MP/5MP/4MP/3MP/1080P/ 720P/ D1&etc. | USB | 2 ports (1 Rear USB2.0, 1 Front USB2.0) |
| Bit Rate 16Kbps ~ 20Mbps Per Channel Electrical Record Mode Manual, Schedule(Regular(Continuous), MD, Stop Power Supply Single, DC48V/2A Record Interval 17-120 min (default: 60 min), Pre-record: 17-30 sec, Post-record: 107-300 sec Power Consumption Poe: Max 25.5w for single port, 80w in total Trigger Events Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Operating Conditions 10°C ~ +55°C (+14°F ~ +131°F), 86° 106kpa and Tampering Storage Conditions 10°C ~ +55°C (+14°F ~ +158°F), 0°90% RH Alarm input N/A Construction Relay Output N/A Dimensions(WxDxH) Compact 1U, 260mmx224.9mmx47.6mm (10.2° x 8.9° x 1.9°) Playback and Backup Net Weight 0.8kg (1.76 ib) (without HDD) Sync Playback 1/4 Gross Weight 1.6kg (3.53 ib)(without HDD) Search Mode Time /Date, MD and Exact Search (accurate to second) (accurate to second) File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom FCC Backup Mode USB Device/Network | Record Rate | 80Mbps | RS232 | N/A |
| Record Mode Manual, Schedule(Regular(Continuous), MD, Stop Power Supply Power Supply Power Consumption Power Consumption Poe: Max 25.5w (without HDD) Poe: Max 25.5w for single port, 80w in total Environmental Storage Conditions Alarm input Modion Detection, MD Zones: 396 (22 x 18), and Tampering Alarm input N/A Playback and Backup Playback A mode Time / Date, MD and Exact Search (accurate to second) Playback Function Playback Function Mode Mode | Rit Rate | 16Khns ~ 20Mhns Per Channel | RS485 | N/A |
| 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 x 18), and Tampering Alarm input N/A Alarm input N/A Playback and Backup Playback And Backup Time / Date, MD and Exact Search (accurate to second) (accurate to second) (accurate to second) File, Previous File, Next Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom Backup Mode USB Device/Network Power Consumption Power Consumption Poe: Max 25.5w for single port, 80w in total Poe: Max 25.5w for single port, 80w in total Poe: Max 25.5w for single port, 80w in total Poe: Max 25.5w for single port, 80w in total Poe: Max 25.5w for single port, 80w in total Poe: Max 25.5w for single port, 80w in total Environmental Coperating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa -10°C ~ +55°C (+14°F ~ +158°F), 0 ~ 90% RH Construction Construction N/A Construction Net Weight O.8kg (1.76 lb) (without HDD) Certifications Certifications CE EN55032, EN55024, EN50130-4, EN60950-1 FICC Part 15 Subpart B, ANSI C63.4-2014 | | | Electrical | |
| Record interval Post-record: 10~300 sec Power Consumption NVR: <5.8W (without HDD) Video Detection and Alarm Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Environmental Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa Alarm input N/A Construction Relay Output N/A Construction Playback and Backup Net Weight Compact 1U, 260mm×224.9mm×47.6mm (10.2° x 8.9° x 1.9°) Sync Playback 1/4 Ret Weight 0.8kg (1.76 lb) (without HDD) Search Mode Time /Date, MD and Exact Search (accurate to second) Certifications Play Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Frevious Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom Full Screen, Shuffle, Backup Selection, Digital Zoom CE ENS5032, ENS5024, ENS0130-4, EN60950-1 Backup Mode USB Device/Network FCC Part 15 Subpart B, ANSI C63.4-2014 | Record Mode | | Power Supply | Single, DC48V/2A |
| Video Detection and Alarm Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Alarm input N/A 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) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next Full, Previous File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom Backup Mode WSB Device/Network Environmental Environmental Storage Conditions -10°C~+55°C (+14°F~+131°F), 86~106kpa -10°C~+55°C (+14°F~+131°F), 80~106kpa -10°C~+55°C (+14°F~+131°F), 80~106kpa -10°C~+55°C (+14°F~+131°F), 80~106kpa -10°C~+55°C (+14°F~+131°F), 80~106kpa -10°C~+55°C (+14°F~+ | Record Interval | | Power Consumption | NVR: <5.8W (without HDD) |
| Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering N/A Alarm input N/A Construction N/A Construction Playback and Backup Search Mode Time /Date, MD and Exact Search (accurate to second) Playback Function Playback Function Play Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom Backup Mode USB Device/Network Motion Detection, MD Zones: 396 (22 × 18), and Tampering Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa -10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa -10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa -10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa -20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH Construction Dimensions(WxDxH) Net Weight 0.8kg (1.76 lb) (without HDD) Certifications Cet EN55032, EN55024, EN50130-4, EN60950-1 FCC Part 15 Subpart B, ANSI C63.4-2014 | Video Detection and Alarm | | | PoE: Max 25.5w for single port, 80w in total |
| Video Detection and Tampering Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH Alarm input N/A Construction Playback and Backup Net Weight O.8kg (1.76 lb) (without HDD) Sync Playback 1/4 Gross Weight 1.6kg(3.53 lb)(without HDD) Search Mode Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom Backup Mode USB Device/Network Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH Construction Compact 1U, 260mm×224.9mm×47.6mm (10.2" x 8.9" x 1.9") Net Weight O.8kg (1.76 lb) (without HDD) Certifications CE EN55032, EN55024, EN50130-4, EN60950-1 FCC Part 15 Subpart B, ANSI C63.4-2014 | Trigger Events | The state of the s | Environmental | |
| Alarm input N/A Construction Relay Output N/A Dimensions(W×D×H) Compact 1U, 260mm×224.9mm×47.6mm (10.2" x 8.9" x 1.9") Net Weight O.8kg (1.76 lb) (without HDD) Sync Playback 1/4 Gross Weight 1.6kg(3.53 lb)(without HDD) Certifications 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 Scondard Compact 1U, 260mm×224.9mm×47.6mm (10.2" x 8.9" x 1.9") Net Weight O.8kg (1.76 lb) (without HDD) Certifications CE EN55032, EN55024, EN50130-4, EN60950-1 FCC Part 15 Subpart B, ANSI C63.4-2014 | Video Detection | | Operating Conditions | -10°C~+55°C (+14°F~+131°F), 86~106kpa |
| Construction Relay Output N/A Dimensions(W×D×H) Compact 1U, 260mm×224.9mm×47.6mm (10.2" x 8.9" x 1.9") Net Weight O.8kg (1.76 lb) (without HDD) Sync Playback 1/4 Gross Weight 1.6kg(3.53 lb)(without HDD) Search Mode Time /Date, MD and Exact Search (accurate to second) 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 Compact 1U, 260mm×224.9mm×47.6mm (10.2" x 8.9" x 1.9") Cef weight Certifications CE EN55032, EN55024, EN50130-4, EN60950-1 FCC Part 15 Subpart B, ANSI C63.4-2014 | Alarm innut | | Storage Conditions | -20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH |
| Playback and Backup Sync Playback 1/4 Gross Weight 1.6kg(3.53 lb)(without HDD) Search Mode Playback Function Playback Function 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 Dimensions(W×D×H) Net Weight 0.8kg (1.76 lb) (without HDD) Certifications Certifications CE EN55032, EN55024, EN50130-4, EN60950-1 FCC Part 15 Subpart B, ANSI C63.4-2014 | · | | Construction | |
| Sync Playback 1/4 Gross Weight 1.6kg(3.53 lb)(without HDD) Search Mode Time /Date, MD and Exact Search (accurate to second) 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 Net Weight O.8kg (1.76 lb) (without HDD) Certifications CE EN55032, EN55024, EN50130-4, EN60950-1 FCC Part 15 Subpart B, ANSI C63.4-2014 | Relay Output | N/A | Dimensions(W×D×H) | · |
| Search Mode Time /Date, MD and Exact Search (accurate to second) 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 Gross Weight Certifications CE EN55032, EN55024, EN50130-4, EN60950-1 FCC Part 15 Subpart B, ANSI C63.4-2014 | Playback and Backup | | Net Weight | 0.8kg (1.76 lb) (without HDD) |
| 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 CE EN55032, EN55024, EN50130-4, EN60950-1 FCC Part 15 Subpart B, ANSI C63.4-2014 | Sync Playback | 1/4 | Gross Weight | 1.6kg(3.53 lb)(without HDD) |
| Playback Function File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom FCC Part 15 Subpart B, ANSI C63.4-2014 Backup Mode USB Device/Network | Search Mode | | Certifications | |
| Full Screen, Shuffle, Backup Selection, Digital Zoom FCC Part 15 Subpart B, ANSI C63.4-2014 Backup Mode USB Device/Network | Playback Function | File, Previous File, Next Camera, Previous Camera, | CE | EN55032, EN55024, EN50130-4, EN60950-1 |
| | | | FCC | Part 15 Subpart B, ANSI C63.4-2014 |
| | Backup Mode | USB Device/Network | UL | UL60950-1 |

Lite Series | DHI-NVR2108HS-8P-4KS2

| Ordering Information | | | | |
|----------------------|-----------------------|--|--|--|
| Туре | Part Number | Description | | |
| 8 Channel NVR | DHI-NVR2108HS-8P-4KS2 | 8 Channel Compact 1U 8PoE Lite 4K H.265 Network Video Recorder | | |
| Accessories | N/A | N/A | | |

Rear Panel



Dimensions (mm)

