

DS-9600NI-E(/H) Series NVR



Introduction:

DS-9600NI-E(/H) series NVR (Network Video Recorder) is a new generation recorder developed by Hikvision independently. Combined with multiple advanced technologies, such as audio and video decoding technology, embedded system technology, storage technology, network technology and intelligent technology, it can both work alone as a recorder and cooperate with other device to build a comprehensive surveillance system.

The DS-9600NI-E(/H) series NVR can be widely applied in the areas of finance, public security, military, communication, transportation, education, etc..

Available Models:

DS-96128NI-E16(/H), DS-96128NI-E24(/H);
DS-96256NI-E16(/H), DS-96256NI-E24(/H);

Main Features:

Professional and Reliable

- Pluggable HDD design provides a convenient HDD installation and maintenance way; Unique chassis based on patented design ensures environmental friendly and low-noise running.
- Adopt professional embedded hardware and software, and pioneering dual-OS design to ensure the reliability of system running.
- Support redundant power supply to improve the system stability.
- Adopt ANR technology to enhance the storage reliability when the network disconnected.
- Supports HDD hot swap with RAID0, RAID1, RAID5, RAID10 storage scheme configurable.
- Either normal or hot spare working mode is configurable to constitute an N+1 hot spare system.

HD Input

- Connectable to the third-party network cameras like ACTI, Arecont, AXIS, Bosch, Brickcom, Canon, ONVIF, PANASONIC, Pelco, PSIA, SAMSUNG, SANYO, SONY, Vivotek and ZAVIO.
- Up to 128/256 IP cameras can be connected with 400M/640M incoming bandwidth.
- Support live view, storage, and playback of the connected camera at up to 8 megapixels resolution.

HD Output

- Up to 64-window division display mode for the HDMI1/VGA/LCD output, and 16-window division display mode for HDMI2-6 outputs. The display sequence of channels is adjustable.
- Multi-screen display supported by the HDMI 3-6 outputs of /H models.

HD Storage

- Up to 16/24 SATA hard disks and 1 miniSAS (optional) can be connected, for both recording and backup.

HD Transmission

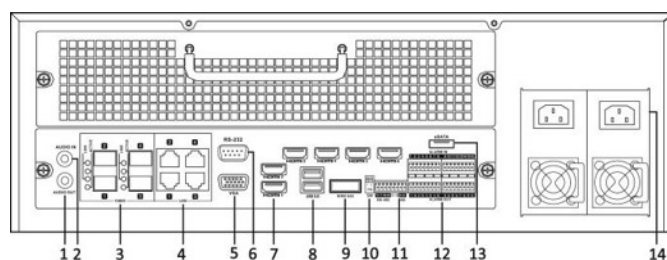
- 4 self-adaptive 10M/100M/1000M network interfaces and 4 1000M optical fiber interfaces.

Various Applications

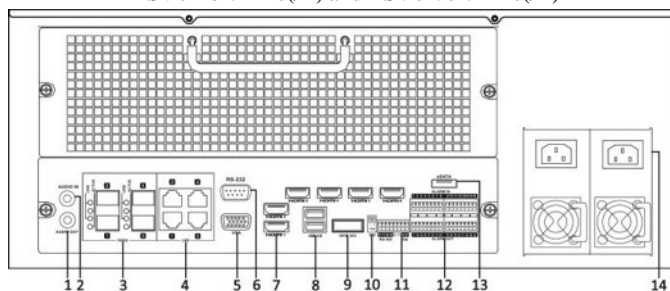
- Centralized management of IP cameras is supported, including configuration, information import/export, real-time information display, two-way audio, upgrade, etc.
- Connectable to smart IP cameras from Hikvision and the recording, playing back, and backing up of VCA alarms can be realized.

- New GUI and support starting record with one key;
- Realize instant playback for assigned channel during multi-channel display mode.
- Smart search for the selected area in the video; and smart playback to improve the playback efficiency.
- Support HDD quota and group modes; different capacity can be assigned to different channels.
- Support USB 3.0 and eSATA interface to fulfill the requirement of high-speed backup.

Physical Interfaces:



DS-96128NI-E16(/H) and DS-96256NI-E16(/H)



DS-96128NI-E24(/H) and DS-96256NI-E24(/H)

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| 10 | Termination Switch |
| 11 | RS-485 Serial Interface and Keyboard Interface |
| 12 | ALARM IN and ALARM OUT |
| 13 | eSATA Interface |
| 14 | 100~240VAC Power Input |

Specifications:

| Model | | DS-96128NI-E16 | DS-96256NI-E16 | DS-96128NI-E24 | DS-96256NI-E24 |
|--------------------|---------------------------------|---|---|---|---|
| Video/Audio input | IP video input | 128-ch | 256-ch | 128-ch | 256-ch |
| | Two-way audio | 1-ch, RCA (2.0 Vp-p, 1kΩ) | | | |
| Network | Incoming bandwidth | 400Mbps | 640Mbps | 400Mbps | 640Mbps |
| | Outgoing bandwidth | 400Mbps | 640Mbps or 320Mbps (when RAID is enabled) | 400Mbps | 640Mbps or 320Mbps (when RAID is enabled) |
| | Remote connection | 256 | | | |
| Video/Audio output | Recording resolution | 6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF | | | |
| | HDMI™ output | 2-ch HDMI™ 1 supports 64-window division, and HDMI™ 2 supports 16-window division. | | | |
| | VGA output | 1-ch | | | |
| | LCD/HDMI™/VGA output resolution | HDMI™ 3-6: 1920 × 1080P /60Hz LCD/VGA/ HDMI™ 1-2: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz | | | |
| | Audio output | 1-ch, RCA (2.0Vp-p, 1KΩ) | | | |
| Decoding | Live view / Playback resolution | 6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF | | | |
| | Capability | 8-ch@1080P | | | |
| Hard disk | SATA | 16 SATA interfaces for 16 HDDs | | 24 SATA interfaces for 24 HDDs | |
| | eSATA | 1 eSATA interface | | | |
| | miniSAS (Optional) | 1 miniSAS interface | | | |
| | Capacity | Up to 6TB capacity for each HDD | | | |
| Disk array | Array type | RAID0, RAID1, RAID5, RAID10 | | | |
| External interface | Network interface | 4 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interfaces | | | |
| | Optic fiber interface | 4 1000 Mbps optic fiber interfaces | | | |
| | Serial interface | RS-232; RS-485; Keyboard | | | |
| | USB interface | Front panel: 2 × USB 2.0 Rear panel: 2 × USB 3.0 | | Front panel: 1 × USB 2.0 Rear panel: 2 × USB 3.0 | |
| | Alarm in/out | 16 / 8 | | | |
| Others | Power supply | 100 ~ 240 VAC, 6.3 A, 50 ~ 60 Hz | | | |
| | Consumption (without hard disk) | ≤ 300 W | | ≤ 450 W | |
| | Working temperature | -10°C ~ +55°C (14°F ~ 131°F) | | | |
| | Working humidity | 10 % ~ 90 % | | | |
| | Chassis | 19-inch rack-mounted 3U chassis | | 19-inch rack-mounted 4U chassis | |
| | Dimensions (W × D × H) | 442 × 494 × 146 mm (17.4" × 19.4" × 5.7") | | 447 × 528 × 172mm (17.6" × 20.8" × 6.8") | |
| | Weight (without hard disk) | ≤ 15.86 Kg (31.79 lb) | | ≤ 20.80 Kg (45.76 lb) | |

| Model | | DS-96128NI-E16/H | DS-96256NI-E16/H | DS-96128NI-E24/H | DS-96256NI-E24/H |
|--------------------|---------------------------------|---|---|---|---|
| Video/Audio input | IP video input | 128-ch | 256-ch | 128-ch | 256-ch |
| | Two-way audio | 1-ch, RCA (2.0 Vp-p, 1kΩ) | | | |
| Network | Incoming bandwidth | 400Mbps | 640Mbps | 400Mbps | 640Mbps |
| | Outgoing bandwidth | 400Mbps | 640Mbps or 320Mbps (when RAID is enabled) | 400Mbps | 640Mbps or 320Mbps (when RAID is enabled) |
| | Remote connection | 256 | | | |
| Video/Audio output | Recording resolution | 6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF | | | |
| | LCD output | 7" LCD touch screen | | | |
| | HDMI™ output | 6-ch HDMI™ 1 supports 64-window division, and HDMI™ 2-6 support 16-window division. | | | |
| | VGA output | 1-ch | | | |
| | LCD/HDMI™/VGA output resolution | HDMI™ 3-6: 1920 × 1080P /60Hz LCD/VGA/ HDMI™ 1-2: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz | | | |
| | Audio output | 1-ch, RCA (2.0Vp-p, 1KΩ) | | | |
| Decoding | Live view / Playback resolution | 6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF | | | |
| | Capability | 24-ch@1080P | | | |
| Hard disk | SATA | 16 SATA interfaces for 16 HDDs | | 24 SATA interfaces for 24 HDDs | |
| | eSATA | 1 eSATA interface | | | |
| | miniSAS (Optional) | 1 miniSAS interface | | | |
| | Capacity | Up to 6TB capacity for each HDD | | | |
| Disk array | Array type | RAID0, RAID1, RAID5, RAID10 | | | |
| External interface | Network interface | 4 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interfaces | | | |
| | Optic fiber interface | 4 1000 Mbps optic fiber interfaces | | | |
| | Serial interface | RS-232; RS-485; Keyboard | | | |
| | USB interface | Front panel: 2 × USB 2.0 Rear panel: 2 × USB 3.0 | | Front panel: 1 × USB 2.0 Rear panel: 2 × USB 3.0 | |
| | Alarm in/out | 16 / 8 | | | |
| Others | Power supply | 100 ~ 240 VAC, 6.3 A, 50 ~ 60 Hz | | | |
| | Consumption (without hard disk) | ≤ 300 W | | ≤ 450 W | |
| | Working temperature | -10°C ~ +55°C (14°F ~ 131°F) | | | |
| | Working humidity | 10 % ~ 90 % | | | |
| | Chassis | 19-inch rack-mounted 3U chassis | | 19-inch rack-mounted 4U chassis | |
| | Dimensions (W × D × H) | 442 × 494 × 146 mm (17.4" × 19.4" × 5.7") | | 447 × 528 × 172mm (17.6" × 20.8" × 6.8") | |
| | Weight (without hard disk) | ≤ 15.86 Kg (31.79 lb) | | ≤ 20.80 Kg (45.76 lb) | |

Notes:

The formula to calculate the incoming bandwidth and the IP camera connected is: $A = B/(C+D)$.

A refers to the number of IP camera you connected.

B refers to the value of the incoming bandwidth.

C refers to the bitrate value of the main stream of the connected IP camera.

And D refers to the bitrate value of the sub-stream of the connected IP camera.

Example: The incoming bandwidth of DS-96128NI-E16 NVR is 400 Mbps and the IP camera to connect is with resolution of 720P (1280*720) / 25 (30) fps. The bitrate for the main stream and sub-stream of the IP camera is set as 4Mbps and 1Mbps respectively.

In this example, $B=400\text{Mbps}$, $C=4\text{Mbps}$, $D=1\text{Mbps}$ and $A = B/(C+D) = 400 / (4+1) = 80$. So the number of IP cameras can be connected with is 80.