# DS-96000NI-I16/H SERIES NVR



## Features and Functions

**Professional and Reliable**

- New logical and visualized GUI design.
- Adopts professional embedded hardware and software, and pioneering dual-OS design to ensure the reliability of system running.
- Supports redundant power supply to improve the system stability.
- Supports HDD hot swap with RAID0, RAID1, RAID5, RAID 6, and RAID10 storage scheme configurable.
- Either normal or hot spare working mode is configurable to constitute an N+1 hot spare system.

**Video Input and Transmission**

- Up to 128/256 IP cameras can be connected.
- Supports live view, storage, and playback of the connected camera at up to 12 megapixels resolution.
- H.265+ compression effectively reduces the storage space by up to 75%.
- 4 self-adaptive 10M/100M/1000M network interfaces.
- Adopt stream over TLS encryption technology (enhanced SDK service and RTP over HTTPS protocol)
- Connectable to the third-party network cameras like ACTI, Arecont, AXIS, Bosch, Brickcom, Canon, ONVIF, PANASONIC, Pelco, SAMSUNG, SANYO, SONY, Vivotek and ZAVIO.

**HD Output**

- Simultaneous HDMI 1/VGA output as the main output and the HDMI 2 works as the auxiliary output.
- HDMI and VGA1 simultaneous outputs by default. Asynchronous outputs configurable.
- Video outputs at up to 4K (4096×2160) resolution.
- Supports decoding up to 20 channels at 1080p resolution.

**Storage and Playback**

- Up to 16 SATA interfaces and 1 eSATA interface provided for HDD connection
- 10 TB capacity for each HDD.
- HDD health monitoring.
- Supports HDD quota and group modes; different capacity can be assigned to different channels.
- Normal/Important/Custom video playback.

**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.
- VCA detection alarm is supported.
- VCA search for facial detection, behavior analysis, people counting and heat map.
- Supports starting record with one key.
- Realizes 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.
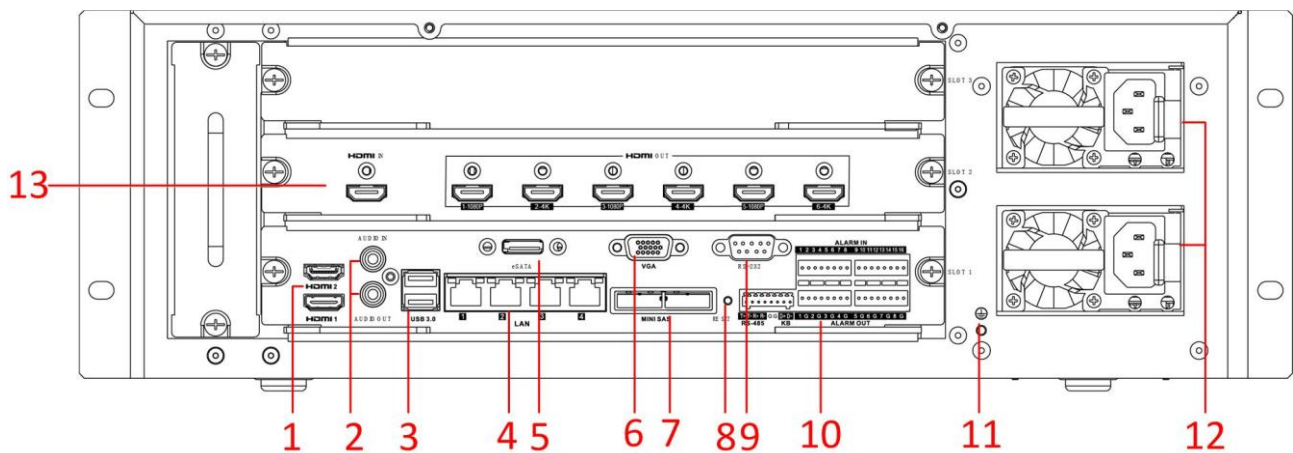
# Specifications

| Model | | DS-96128NI-I16/H | DS-96256NI-I16/H |
|---|---|---|---|
| Video & Audio input | IP video input | 128-ch | 256-ch |
| | Incoming/outgoing bandwidth | 768 Mbps/512 Mbps | 768 Mbps/768 Mbps |
| | Incoming/outgoing bandwidth (RAID mode) | 768 Mbps/512 Mbps | 768 Mbps/768 Mbps |
| | TLS outgoing bandwidth | 128 Mbps, or 64 Mbps (when RAID is enabled) | |
| | Protocol | HIKVISION, ACTi, ARECONT, AXIS, BOSCH, BRICKCOM, CANON, HUNT, ONVIF (Version 2.5), PANASONIC, PELCO, RTSP, SAMSUNG, SONY, VIVOTEK, ZAVIO | |
| Video & Audio output | HDMI output | Two independent HDMI outputs of 4K resolution. Resolution: 4K (4096 × 2160), 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1080p (1920 × 1080)/60Hz, UXGA (1600 × 1200)/60Hz, SXGA (1280 × 1024)/60Hz, 720p (1280 × 720)/60Hz, XGA (1024 × 768)/60Hz | |
| | VGA output | 1-ch. Resolution: 1080p (1920 × 1080) /60Hz, UXGA (1600 × 1200) /60Hz, SXGA (1280 × 1024) /60Hz, 720p (1280 × 720) /60Hz, XGA (1024 × 768) /60Hz | |
| | LCD output (optional) | One 7 inch LCD | |
| | Audio output | 1-ch. RCA (2.0 Vp-p, 1 KΩ) | |
| Video & Audio decoding | Decoding format | H.265, H.265+, H.264, H.264+,MPEG4, MJPEG (for Hikvision IP camera only) | |
| | Video resolution | 12 MP/8 MP/7 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF | |
| | Synchronous playback | Up to 16 channels | |
| | Capability | 3-ch@12 MP (30fps), 5-ch@8 MP (30fps), 6-ch@6 MP (30fps), 10-ch@4 MP (30fps), 20-ch@1080p (30 fps) | |
| HDD | Interface | 16 SATA interfaces supporting hot-plug | |
| | Capacity | Up to 10 TB for each HDD | |
| | Storage extension | 1 × eSATA interface, 2 × mini SAS interface (optional) | |
| RAID | RAID Type | RAID0, RAID1, RAID5, RAID 6, and RAID10 | |
| Network management | Protocol | IPv6, HTTPS, UPnP, SNMP, NTP, SADP, SMTP, NFS, iSCSI, PPPoE, DDNS | |
| | Network interface | 4, RJ45 10M/100M/1000M self-adaptive Ethernet interface | |
| External interface | Two-way audio input | 1-ch, RCA (2.0 Vp-p, 1 KΩ) | |
| | Serial port | RS-232; RS-485; Keyboard | |
| | USB interface | Front Panel: 2 × USB 2.0; Rear Panel: 2 × USB 3.0 | |
| | Alarm input/output | 16/8 | |
| | Decoding board | 1 | |
| | Extension board (optional) | One extension board is supported with four 10M/100M/1000M optical interfaces (1.25 Gbps SFP module), eight RS-485 interfaces, and alarm interface of 32 alarm inputs and 16 alarm outputs. | |
| General | Power supply | 100 to 240 VAC, 550W | |
| | Fan | Redundant dual ball bearing fan; Speed adjustable; Hot-plug | |
| | Consumption (without HDD) | ≤ 140W | |
| | Working temperature | 0 °C to + 50 °C (32 °F to 122 °F) | |
| | Working humidity | 10% to 90% | |
| | Dimension (W × D × H) | 442 × 494 × 146 mm (17.4 × 19.4 × 5.7 inch) | |
| | Weight (without HDD) | ≤ 16 kg (35.3 lb) | |

# Specifications

| Model | | DS-96128NI-I16/H | DS-96256NI-I16/H |
|---|---|---|---|
| Video wall management | HDMI output/input | 6/1 | |
| | HDMI output resolution | 4K(3840x2160)/60Hz, 4K (3840x2160)/30Hz, 2K (2560x1440)/60Hz, 1080p (1920x1080)/60Hz, SXGA (1280x1024)/60Hz, 720p (1280x720)/60Hz, XGA (1024x768)/60Hz | |
| | HDMI input resolution | 1080p (1920x1080), SXGA (1280x1024), 720p 1280x720), XGA (1024x768) | |
| | Decoding capacity | 48-ch@1080p | |
| | Decoding resolution | 12 MP/8 MP/7 MP/6 MP/5 MP/3 MP/1080p/UXGA/720p/VGA/4CIG/DCIF/2CIF/CIF/QCIF | |
| | Collage | Supported | |
| | Auto-switch | Supported | |
| | Open window | Supported | |
| | Layer overlay | Supported | |
| | Window roaming | Supported | |
| | Display local signal source on video wall | Supported | |

## Physical Interfaces



| No. | Name | No. | Name |
|-----|------|-----|------|
| 1 | HDMI 1/2 Video Output | 9 | RS-232 Interface |
| 2 | Audio Input | 10 | Alarm Input |
| | Audio Output | | Alarm Output |
| 3 | USB 3.0 | | RS-485 Interface |
| 4 | LAN | | Keyboard Interface |
| 5 | eSATA Interface | 11 | Ground |
| 6 | VGA Video Output | 12 | Power Supplies |
| 7 | Mini SAS Interface (Optional) | 13 | Decoding board |
| 8 | Reset Button | | |

## Available Models

DS-96128NI-I16/H; DS-96256NI-I16/H

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