# DP-96000NI-F16 (/H) NVR

## Introduction:

The DP-96000NI-F16 (/H) series NVR (Network Video Recorder) is a new generation recorder developed by Dunlop 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 DP-96000NI-F16 (/H) series NVR can be widely applied in the areas of finance, public security, military, communication, transportation, education, etc.

## Available Models:

DP-96128NI-F16, DP-96256NI-F16
DP-96128NI-F16/H, DP-96128NI-F16/I, DP-96128NI-F16/H/I
DP-96256NI-F16/H, DP-96256NI-F16/I, DP-96256NI-F16/H/I

## 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.
- Support live view, storage, and playback of the connected camera at up to 8 megapixels resolution.

**HD Output**

- Simultaneous HDMI1/VGA output as the main output and the HDMI2 works as the auxiliary output.
- Video outputs at up to 1920×1080 resolution.
- Powerful decoding capacity: DP-96000NI-F16/H and DP-96000NI-F16/H/I support decoding up to 44 channels at 1080P resolution.

**HD Storage**

- Up to 16 SATA hard disks can be connected, for both recording and backup.

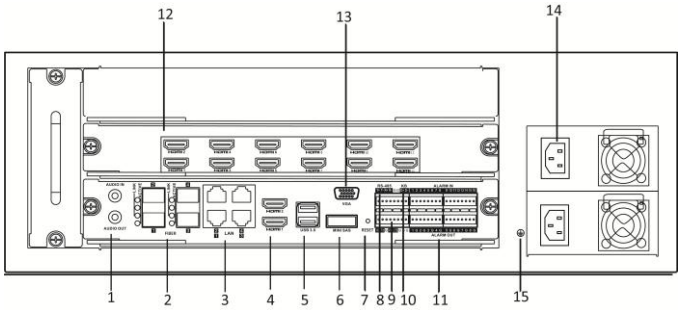
**HD Transmission**

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

**Various Applications**

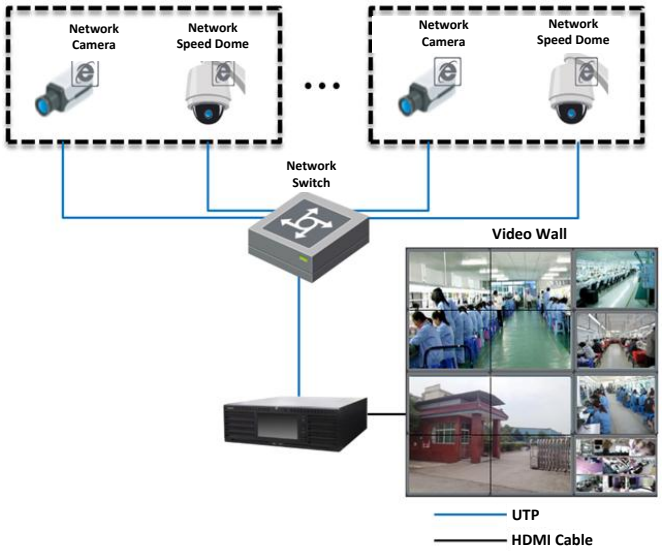
- Centralized management of IP cameras is supported, including configuration, information import/export, real-time information display, two-way audio, upgrade, etc.
- Connectable to smart IP cameras from Dunlop and the recording, playing back, and backing up of VCA alarms can be realized.
- VCA detection alarm is supported.
- VCA search for face detection, behavior analysis, people counting and heat map.
- 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.

## Physical Interfaces:




| Index | Name |
|---|---|
| 1 | RCA connector for audio output and output |
| 2 | 4 Fiber Optic Interfaces |
| 3 | 4 LAN network interfaces |
| 4 | 2 HDMI video output connectors |
| 5 | USB 3.0 Interfaces |
| 6 | miniSAS Interface (optional) |
| 7 | Reset the device. |
| 8 | RS-485 Interface |
| 9 | RS-232 Interface |
| 10 | Controller Port |
| 11 | ALARM IN and ALARM OUT |
| 12 | HDMI Output Extension Board (for DP-96000NI-F16/H and DP-96000NI-F16/H/I only) |
| 13 | VGA Interface |
| 14 | 100~240VAC Power Input |
| 15 | GND |

## Typical Application:




***Note:*** The /H and /H/I models provide 12 HDMI outputs for video wall display.

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## Specifications:

| Model | | DP-96128NI-F16/H | DP-96256NI-F16/H |
|---|---|---|---|
| Video/Audio input | IP video input | 128-ch | 256-ch |
| | | Up to 8MP resolution | |
| | Two-way audio | 1-ch, RCA (2.0 Vp-p, 1kΩ) | |
| Network | Incoming bandwidth | 400Mbps | 640Mbps, or 400Mbps (when RAID is enabled) |
| | Outgoing bandwidth | 400Mbps | 400Mbps |
| | Remote connection | 256 | |
| Video/Audio output | Recording resolution | 8MP /6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF | |
| | HDMI1/VGA1 output resolution | 1-ch,<br>1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz | |
| | HDMI2 output | 1-ch,<br>1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz | |
| | HDMI outputs (on HDMI Output Extension Board) | 12-ch<br>1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz | |
| | LCD Screen | Available for /H and /H/I models only | |
| | Audio output | 1-ch, RCA (2.0Vp-p, 1KΩ) | |
| Decoding | Live view / Playback resolution | 8MP /6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF | |
| | Synchronous playback | 16-ch | |
| | Capability | DP-96000NI-F16/H 44-ch@1080P | |
| Hard disk | SATA | 16 SATA interfaces for 16HDDs | |
| | miniSAS (Optional) | 1 miniSAS interface | |
| | Capacity | Up to 6TB capacity for each HDD | |
| Disk array | Array type | RAID0, RAID1, RAID5, RAID10 | |
| | Number of arrays | 16 | |
| External interface | Network interface | 4, RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface | |
| | Optic fiber interface | 4, 1000 Mbps optic fiber interface | |
| | Serial interface | RS-232; RS-485; Keyboard | |
| | USB interface | Front panel: 2 × USB 2.0; Rear panel: 2 × USB 3.0 | |
| | Alarm in/out | 16 / 8 | |
| General | Power supply | 100 ~ 240 VAC, 50 ~ 60 Hz | |
| | Max. Power | 300 W | |
| | Consumption (without hard disk) | ≤100 W | |
| | Working temperature | -10°C ~ +55°C (14°F ~ 131°F) | |
| | Working humidity | 10 % ~ 90 % | |
| | Chassis | 19-inch rack-mounted 3U chassis | |
| | Dimensions(W × D × H) | 442 × 494 ×146 mm (17.4" ×19.4"× 5.7") | |
| | Weight(without hard disk) | ≤ 15.5Kg (34.2 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 DP-96128NI-F16 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=400Mbps, C=4Mbps, D=1Mbps and A = B/(C+D) = 400 / (4+1) = 80. So the number of IP cameras can be connected with is 80.