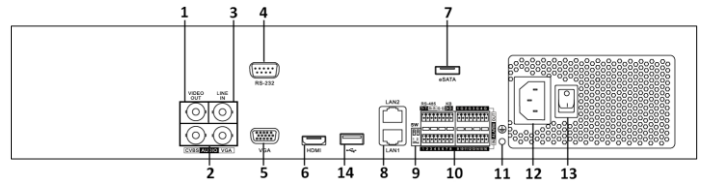


## DS-9600NI-RT Series

NVR

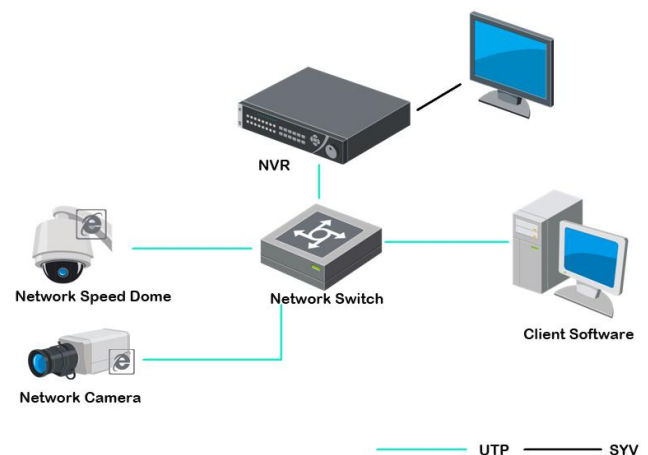


### Physical Interfaces:



- ① VIDEO OUT
- ② CVBS AUDIO OUT and VGA AUDIO OUT
- ③ LINE IN
- ④ RS-232 Serial Interface
- ⑤ VGA Interface
- ⑥ HDMI Interface
- ⑦ eSATA Interface
- ⑧ LAN1, LAN2 Network Interface
- ⑨ Termination Switch
- ⑩ RS-485 Serial Interface, Keyboard Interface, ALARM IN and ALARM OUT
- ⑪ GND
- ⑫ 100~240VAC Power Input
- ⑬ Power Switch
- ⑭ USB Interface

### Typical Application:



### Introduction:

DS-9600NI-RT 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-RT series NVR are widely applied in the areas of finance, public security, military, communication, transportation, education, etc..

### Available Models:

DS-9608NI-RT, DS-9616NI-RT, DS-9632NI-RT, and DS-9664NI-RT,

### Main Features:

- Pluggable HDD design provides convenient HDD installation and maintenance way;
- Connectable to the third-party network cameras like like ACTI, Arecont, AXIS, Bosch, Brickcom, Canon, ONVIF, PANASONIC, Pelco, PSIA, SAMSUNG, SANYO, SONY and Vivotek and ZAVIO.
- Up to 64 network cameras can be connected
- Support live view, storage, and playback of the connected camera with up to the resolution of 5 megapixels.
- Simultaneous HDMI, VGA and CVBS outputs; and respective live view and playback via VGA and HDMI outputs.
- New GUI and support starting record with one key;
- Redundant recording, holiday recording and capture schedule configuration;
- Realize instant playback for assigned channel during multi-channel display mode.
- Up to 16-ch synchronous playback at 4CIF resolution.
- Smart search for the selected area in the video.
- Customization of tags, searching, and playing back by tags.
- Locking and unlocking record files.
- Support HDD quota and group modes; different capacity can be assigned to different channel.
- Up to 8 SATA hard disks and 1 eSATA disk can be connected, for both recording and backup.
- Support RAID0, RAID1, RAID5, RAID10 storage scheme. And 8 virtual disks can be configured.
- 2 self-adaptive 10M/100M/1000M network interfaces, with working modes configurable: multi-address, load balance, network fault tolerance, etc.
- Support Hikvision DDNS (Dynamic Domain Name System);
- Support Channel-zero encoding, which enables you to get a view in the remote client or IE browser of all the channels in one screen.
- Support network detection, including network delay, packet loss, etc.
- Adopt pioneering dual-OS design to ensure the security of system running.

## Specifications:

Model		DS-9608NI-RT	DS-9616NI-RT	DS-9632NI-RT	DS-9664NI-RT
Video/Audio input	IP video input	8-ch	16-ch	32-ch	64-ch
	Two-way audio	1-ch, BNC (2.0 V <sub>p-p</sub> , 1kΩ)			
Network	Incoming bandwidth	40Mbps	80Mbps	160Mbps	160Mbps
	Outgoing bandwidth	240Mbps	240Mbps	160Mbps	160Mbps
	Remote Connection	128			
Video/Audio output	Recording resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF			
	CVBS output	1-ch, BNC (1.0 V <sub>p-p</sub> , 75 Ω) Resolution: 704 × 576 (PAL); 704 × 480 (NTSC)			
	HDMI output	1-ch, resolution: 1920 × 1080P /60Hz, 1920×1080P /50Hz, 1600 × 1200/60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz			
	VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz			
	Audio output	2-ch, BNC (Linear, 600Ω)			
	Playback resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF			
	Synchronous playback	8-ch	16-ch	16-ch	16-ch
Hard disk	SATA	8 SATA interfaces for 4 HDDs + 1 DVD-R/W (default), or 8HDDs			
	eSATA	1 eSATA interface			
	Capacity	Up to 4TB capacity for each HDD			
Disk array	Array type	RAID0, RAID1, RAID5, RAID10			
	Number of array	4			
	Number of virtual disk	8			
External interface	Network interface	2 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interfaces			
	Serial interface	RS-232; RS-485; Keyboard;			
	USB interface	3 × USB 2.0			
	Alarm in/out	16/4			
Others	Power supply	100 ~ 240 VAC, 6.3 A, 50 ~ 60 Hz			
	Consumption (without hard disk or DVD-R/W)	≤ 35 W	≤ 40 W	≤ 45 W	≤ 45 W
	Working temperature	-10 °C ~ +55 °C			
	Working humidity	10 % ~ 90 %			
	Chassis	19-inch rack-mounted 2U chassis			
	Dimensions (W × D × H)	445 × 470 × 90 mm (17.52" × 18.5" × 3.54")			
	Weight	≤ 8 Kg (17.64 lb) ( without hard disk or DVD-R/W )			

**Note:**

The formula to calculate the incoming bandwidth and the IPC 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 IPC.

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

**Example:** The incoming bandwidth of 9016HWI-ST HDVR is 80Mbps and the IPC to connect is with resolution of 720P (1280\*720) / 25 (30) fps. The bitrate for the main stream and sub-stream of the IPC is set as 4Mbps and 1Mbps respectively.

In this example,  $B=80\text{Mbps}$ ,  $C=4\text{Mbps}$ ,  $D=1\text{Mbps}$  and  $A = B/(C+D) = 80 / (4+1) = 16$ . So the number of IP cameras can be connected with is 16.