HIKVISION

DS-8600NI-E8 Series NVR

Introduction:

DS-8600NI-E8 series NVR (Network Video Recorder) is a new generation recorder developed by Hikvision independently. Combined with multiple advanced technologies, such as audio and video encoding & 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-8600NI-E8 series NVR can be widely applied in the areas of finance, public security, military, communication, transportation, education, etc..
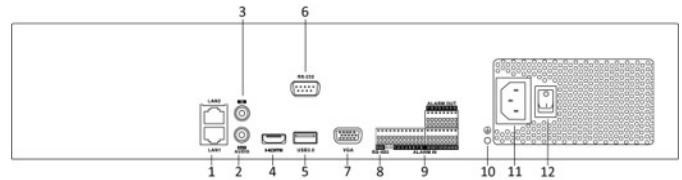
Available Models:

DS-8608NI-E8, DS-8616NI-E8 and DS-8632NI-E8.
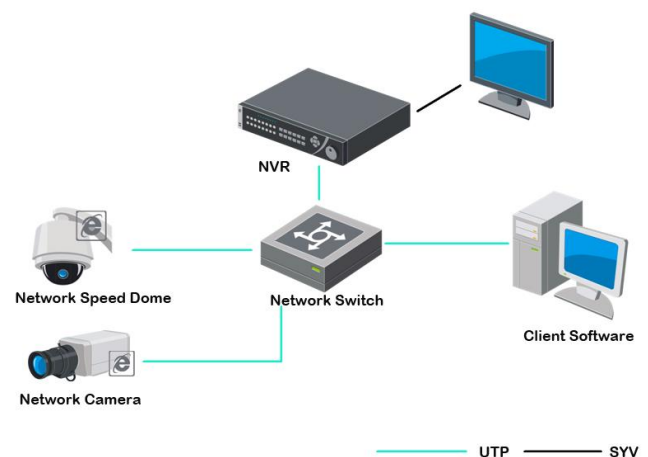
Main Features:

- Connectable to the third-party network cameras like like ACTI, Arecont, AXIS, Bosch, Brickcom, Canon, ONVIF, PANASONIC, Pelco, PSIA, SAMSUNG, SANYO, SONY, Vivotek and ZAVIO.
- Up to 32 network cameras can be connected.
- Support live view, storage, and playback of the connected camera at up to 6 megapixels resolution.
- Simultaneous HDMI and VGA at 1920 ×1080 resolution.
- 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 (optional) can be connected, for both recording and backup.
- Either normal or hot spare working mode is configurable to constitute an N+1 hot spare system.
- 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 network detection, including network delay, packet loss, etc.
- Support VCA alarm for up to 16 VCA detections.
- Support VCA search for behavior search, face search, people counting, heat map and plate search.
- Support enabling H.264+ to ensure high video quality with lowered bitrate.

Physical Interfaces:

Index	Name
1	LAN1 and LAN2 Network Interfaces
2	AUDIO OUT
3	AUDIO IN
4	HDMI Interface
5	USB 3.0 Interface
6	RS-232 Serial Interface
7	VGA Interface
8	RS-485 Serial Interface
9	ALARM IN and ALARM OUT
10	GND
11	100~240VAC Power Input
12	Power Switch

Typical Application:

Specifications:

Model		DS-8608NI-E8	DS-8616NI-E8	DS-8632NI-E8
Video/Audio input	**IP video input**	8-ch	16-ch	32-ch
	Two-way audio	1-ch, RCA (2.0 Vp-p, 1KΩ)		
Network	**Incoming bandwidth**	80Mbps	160Mbps	160Mbps
	Outgoing bandwidth	80Mbps		
	Remote connection	128		
Video/Audio output	**Recording resolution**	6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
	Frame rate	Main stream: 50 fps (P) / 60 fps (N)		
		Sub-stream: 50 fps (P) / 60 fps (N)		
	HDMI/VGA output	1-ch, resolution: 1920 ×1080 /60Hz, 1600 ×1200 /60Hz, 1280 ×1024 /60Hz, 1280 ×720 /60Hz, 1024 ×768 /60Hz		
	Audio output	1-ch, RCA (Linear, 1KΩ)		
Decoding	**Live view / Playback resolution**	6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
	Capability	8-ch@720P, 6-ch@1080P	16-ch@4CIF, 12-ch@720P, 6-ch@1080P	
Hard disk	**SATA**	8 SATA interfaces for 4 HDDs + 1 DVD-R/W (default), or 8HDDs		
	eSATA (Optional)	1 eSATA interface		
	Capacity	Up to 6TB capacity for each HDD		
External interface	**Network interface**	2 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interfaces		
	Serial interface	RS-232 and RS-485		
	USB interface	2 ×USB 2.0, 1 ×USB 3.0		
	Alarm in / out	16 / 4 (optionally can be expanded to 16 / 8)		
Others	**Power supply**	100 ~ 240 VAC		
	Consumption (without hard disk or DVD-R/W)	≤ 20 W	≤ 20 W	≤ 20 W
	Working temperature	-10 ℃ ~ +55 ℃ (14 ℉ ~ 131 ℉)		
	Working humidity	10 % ~ 90 %		
	Chassis	19-inch rack-mounted 2U chassis		
	Dimensions (W ×D ×H)	445 ×470 ×70 mm (17.5"× 18.5" ×2.8")		
	Weight (without hard disk or DVD-R/W)	≤ 8 kg (17.6 lb)		

Note:

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-8616NI-E8 NVR is 100Mbps and the IP camera to connect is with resolution of 1080P (1280*720) / 25 (30) fps. The bitrate for the main stream and sub-stream of the IP camera is set as 6Mbps and 1Mbps respectively.

In this example, B=100Mbps, C=4Mbps, D=1Mbps and $A = B/(C+D) = 100 / (6+1) = 14$. So the number of IP cameras can be connected with is 14.