

DS-7600NI-ST Series NVR



Introduction:

The DS-7600NI-ST 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-7600NI-ST series NVR can be widely applied in the areas of finance, public security, military, communication, transportation, education, etc..

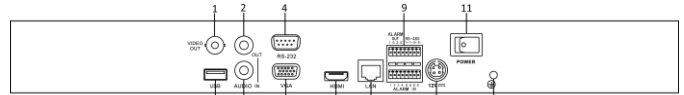
Available Models:

DS-7608NI-ST, DS-7616NI-ST and DS-7632NI-ST.

Main Features:

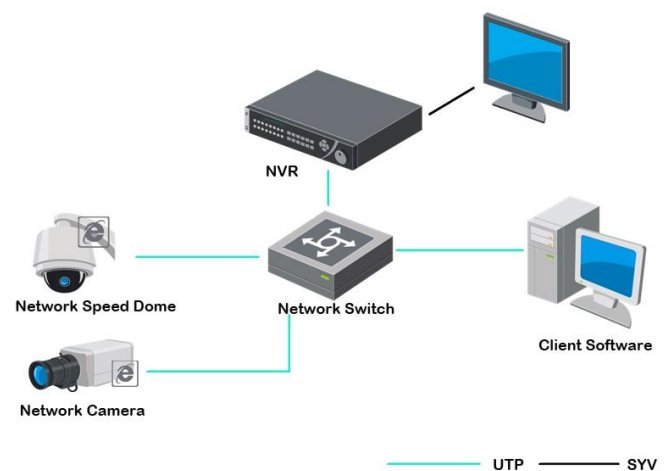
- Connectable to the third-party network cameras like ACTI, Arecont, AXIS, Bosch, Brickcom, Canon, PANASONIC, Pelco, SAMSUNG, SANYO, SONY, Vivotek and ZAVIO, and cameras that adopt ONVIF or PSIA protocol.
- Up to 32 network cameras can be connected
- Support live view, storage, and playback of the connected 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 720P resolution.
- Smart playback to quick get through the less effective information.
- Connectable to the smart IP cameras from Hikvision, and VCA functions can be realized.
- 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 2 SATA hard disks can be connected.
- Either normal or hot spare working mode is configurable to constitute an N+1 hot spare system.
- 1 self-adaptive 10M/100M/1000M network interface;
- Support Hikvision DDNS (Dynamic Domain Name System);
- Support Channel-zero encoding, which enables you to get a view in the remote client or web browser of 16 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.
- 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	VIDEO OUT
2	AUDIO OUT
3	AUDIO IN
4	RS-232 Serial Interface
5	VGA Interface
6	HDMI Interface
7	USB Interface
8	LAN Network Interface
9	RS-485 Interface, ALARM IN and ALARM OUT
10	100~240VAC Power Input
11	Power Switch
12	GND

Typical Application:



Specifications:

Model		DS-7608NI-ST	DS-7616NI-ST	DS-7632NI-ST
Video/Audio input	IP video input	8-ch	16-ch	32-ch
	Two-way audio	1-ch, BNC (2.0 Vp-p, 1kΩ)		
Network	Incoming bandwidth	50Mbps	100Mbps	200Mbps
	Outgoing bandwidth	240Mbps	240Mbps	160Mbps
	Remote Connection	128		
Video/Audio output	Recording resolution	6MP /5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	CVBS output	1-ch, BNC (1.0 Vp-p, 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	1-ch, BNC (Linear, 600Ω)		
	Playback resolution	6MP /5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	Synchronous playback	8-ch	16-ch	16-ch
Decoding	Live view / Playback resolution	6MP /5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	Capability	10-ch@720P,5-ch@1080P	10-ch@720P, 5-ch@1080P	16-ch@720P, 8-ch@1080P
Hard disk	SATA	2 SATA interfaces		
	Capacity	Up to 4TB capacity for each HDD		
External interface	Network interface	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface		
	Serial interface	RS-232; RS-485;		
	USB interface	2 × USB 2.0		
	Alarm in	4		
	Alarm out	2		
Others	Power supply	12 VDC		
	Consumption (without hard disk)	≤ 13 W		
	Working temperature	-10 ℃ ~ +55 ℃ (14 ℉ ~ 131 ℉)		
	Working humidity	10 % ~ 90 %		
	Chassis	19-inch rack-mounted 1U chassis		
	Dimensions (W × D × H)	445 × 261 × 44.5 mm (17.5" × 10.3" × 1.8")		
	Weight (without hard disk)	≤ 4 Kg (8.8 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-7616NI-ST NVR is 100Mbps and the IP camera to connect is with resolution of 1080P (1920*1080) / 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, $B=100\text{Mbps}$, $C=6\text{Mbps}$, $D=1\text{Mbps}$ and $A = B/(C+D) = 100 / (6+1) \approx 14$. So the number of IP cameras can be connected with is 14.