NET TRADING SRL
IMPORTATOR SISTEME DE SECURITATE
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DS-7700NI-ST Series NVR

Introduction:

DS-7700NI-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 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-7700NI-ST series NVR can be widely applied in the areas of finance, public security, military, communication, transportation, education, etc..
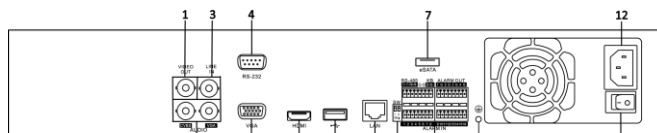
Available Models:

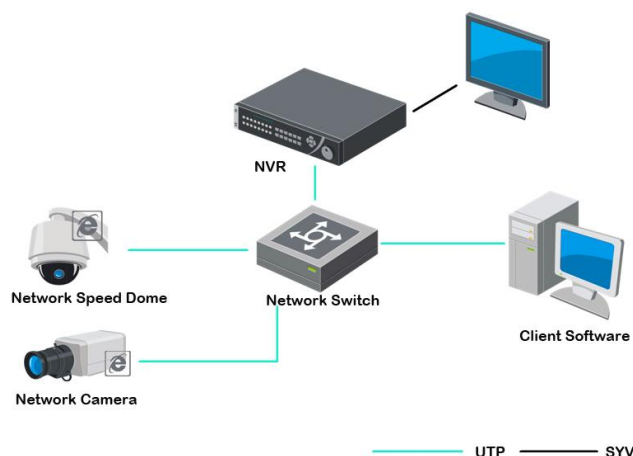DS-7708NI-ST, DS-7716NI-ST, DS-7732NI-ST and DS-7764NI-ST.

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 64 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 4 SATA hard disks and 1 eSATA disk 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.
- 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 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.
- VCA detection alarm is supported.
- VCA search for face detection, behavior analysis, people counting and heat map.

Physical Interfaces:

Index	Name
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 Interfaces
8	LAN 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:

NVR

Network Speed Dome

Network Switch

Client Software

Network Camera

—— UTP ——— SYV

Specifications:

Model		DS-7708NI-ST	DS-7716NI-ST	DS-7732NI-ST	DS-7764NI-ST
Video/Audio input	**IP video input**	8-ch	16-ch	32-ch	64-ch
	Two-way audio	1-ch, BNC (2.0 Vp-p, 1kΩ)			
Network	**Incoming bandwidth**	50Mbps	100Mbps	200Mbps	200Mbps
	Outgoing bandwidth	240Mbps	240Mbps	160Mbps	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	2-ch, BNC (Linear, 600Ω)			
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	16-ch@720P, 8-ch@1080P
Hard disk	**SATA**	4 SATA interfaces for 2 HDDs + 1 DVD-R/W (default), or 4HDDs			
	eSATA	1 eSATA interface			
	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; Keyboard			
	USB interface	3 ×USB 2.0			
	Alarm in	16			
	Alarm out	4			
Others	**Power supply**	100 ~ 240 VAC, 6.3 A, 50 ~ 60 Hz			
	Consumption (without hard disk or DVD-R/W)	≤ 35 W	≤ 40W	≤ 45 W	≤ 45 W
	Working temperature	-10 ℃ ~ +55 ℃ (14 ℉ ~ 131 ℉)			
	Working humidity	10 % ~ 90 %			
	Chassis	19-inch rack-mounted 1.5U chassis			
	Dimensions (W ×D ×H)	445 ×390 ×70 mm (17.5"× 15.3" × 2.8")			
	Weight (without hard disk or DVD-R/W)	≤ 4 Kg (8.82 lb)			

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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-7716NI-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=100Mbps, C=6Mbps, D=1Mbps and $A = B/(C+D) = 100 / (6+1) \approx 14$. So the number of IP cameras can be connected with is 14.