TOMURA™

PS-7700NI-ST Series
NVR

Introduction:

PS-7700NI-ST series NVR (Network Video Recorder) is a new generation recorder 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 PS-7700NI-ST series NVR are widely applied in the areas of finance, public security, military, communication, transportation, education etc..
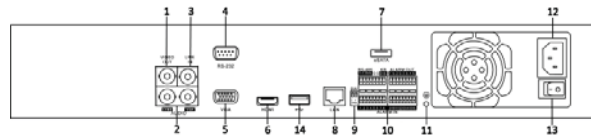
Available Models:

PS-7708NI-ST, PS-7716NI-ST, PS-7732NI-ST and PS-7732NI-ST.
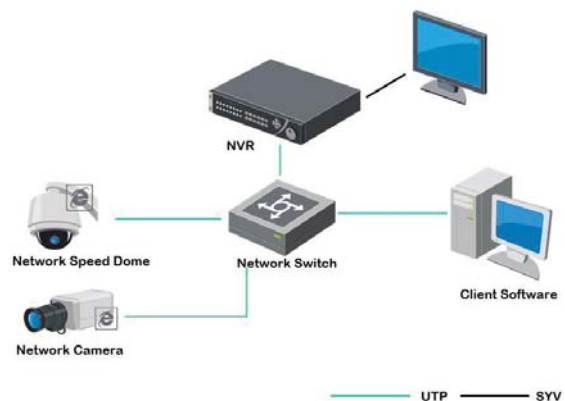
Main Features:

- 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 and VGA at 1920 × 1080 resolution.
- New GUI and support starting record with one key;
- Mobile software for Android and iOS
- Redundant recording, holiday recording and capture Manual/Timer/ Motion/Event/schedule configuration;
- Realize instant playback for assigned channel during multi-channel display mode.
- Flexible display order with covert picture.
- 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.
- 3-level user accounts with binding MAC address.
- 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. Network Attached Storage supported.
- 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 delicated 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.
- 4X digital zoom Live / Playback.
- Independent configuration for each channel parameter, including resolution, frame , bit rate. with import /export Configuration.
- Time/Calendar Search
- Motion Detection 22 x 18 Cells , 1-6 Sensitivity
- Pre-Record 0-30 Second , Post-Record 0-600 Second.
- Support Alarm output device , Audible , Pop up screen , Sent Out E-mail out , Sent to iVMS software

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	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:

Specifications:

Model		PS-7708NI-ST	PS-7716NI-ST	PS-7732NI-ST	PS-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**	40Mbps	80Mbps	160Mbps	160Mbps
	Outgoing bandwidth	240Mbps	240Mbps	160Mbps	160Mbps
	Remote Connection	128			
	Protocol	TCP/IP,IPv6,UDP,PPPoE,DHCP, DNS, DDNS, NPT, SADP, SMIP, SNMP, NFS, UPnP ,ISCSI			
Video/Audio output	**Recording resolution**	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF			
	Frame rate	Main stream: 25 fps (P) / 30 fps (N)			
		Sub-stream: 25 fps (P) / 30 fps (N)			
	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)			
	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**	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 ℃			
	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 inch)			
	Weight	≤ 4 Kg (8.82 lb) (without hard disk or DVD -R/W)			

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 7732NI-ST NVR is 160Mbps 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=160Mbps, C=4Mbps, D=1Mbps and $A = B/(C+D) = 160 / (4+1) = 32$. So the number of IP cameras can be connected with is 32.