



DS-7604/7608NI-SE Series NVR
Technical Specification

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Main Features

- **Connectable to network cameras with up to 5 Megapixels resolution.**
- **Support live view, storage and playback of video at 5.0 Megapixels resolution.**
- **Zooming in for any area when playback.**
- **Playing reversely.**
- **Adverse playback for multi-channel.**
- **Realize instant playback for assigned channel during multi-channel display mode.**
- **Digital zoom in live view and playback mode.**
- **Up to 8-ch synchronous playback at 4CIF resolution.**
- **Customization of tags, searching and playing back by tags.**
- **Searching record files by events (alarm input/motion detection).**
- **Holiday recording schedule configuration.**
- **HDD quota management; different capacity can be assigned to different channel.**
- **Redundant recording.**
- **2 SATA interfaces available.**
- **Dual system design ensures high reliability and stability.**
- **1 self-adaptive 10M/100M/1000M network interface.**
- **IPv6 is supported.**
- **TCP/IP protocol, PPPoE, DHCP, DNS, DDNS, NTP, SADP, SMTP, SNMP, NFS, UPnP and iSCSI are supported.**

Functions & Performances

General

- Connectable to the network cameras, network dome and DVS.
- Connectable to the third-party network cameras.
- Each channel supports dual-stream.
- Up to 8 network cameras can be added.
- Independent configuration for each channel, including resolution, frame rate, bit rate, image quality, etc.
- The video input and output quality is configurable.

HDD Management

- Up to 2 SATA hard disks, 8 network disks (8 NAS disks, or 7 NAS disks+1 iSCSI disk) can be connected, each disk with a maximum of 4TB storage capacity.
- Support S.M.A.R.T. and bad sector detection.
- HDD group management.
- Support HDD standby function.
- HDD property: redundancy, read-only, read/write (R/W).
- HDD quota management; different capacity can be assigned to different channel.

Recording and Playback

- Holiday recording schedule configuration.
- Cycle and non-cycle recording mode.
- Normal and event video encoding parameters.
- Multiple recording types: manual, continuous, alarm, motion, motion | alarm, motion & alarm.
- 8 recording time periods with separated recording types.
- Pre-record and post-record for alarm, motion detection for recording, and pre-record time for schedule and manual recording.
- Searching record files by events (alarm input/motion detection).
- Customization of tags, searching and playing back by tags.
- Locking and unlocking record files.
- Local redundant recording.
- Searching and playing back record files by channel number, recording type, start time, end time, etc.
- Zooming in for any area when playback.
- Playing reversely.
- Adverse Playback for Multi-channel.
- Supports pause, play reversely, speed up, speed down, skip forward, and skip backward when playback, locating by dragging the mouse.
- Up to 8-ch synchronous playback at 4CIF real time.

Backup

- Support NTFS and FAT32 formatted backup devices.
- Export data by USB devices.
- Export video clips when playback.
- Management and maintenance of backup devices.

Alarm and Exception

- Configurable arming time of alarm input/output.
- Alarm for video loss, motion detection, tampering, abnormal signal, illegal login, network disconnected, IP confliction, record exception, HDD error, and HDD full, etc.
- Alarm triggers full screen monitoring, audio alarm, notifying surveillance center, sending email and alarm output.
- Automatic restore when system is abnormal.

Other Local Functions

- Control via mouse, remote control and special keyboard.
- Three-level user management; admin user is allowed to create many operating accounts and define their operating permissions, which includes the limit to access any channel.
- Powerful recording and search for logs of operation, alarm and exceptions.
- Manual Triggering and clearing alarms.
- Import/export of device configuration files.

Network Functions

- 1 self-adaptive 10M/100M/1000M network interface.
- IPv6 is supported.
- TCP/IP protocol, PPPoE, DHCP, DNS, DDNS, NTP, SADP, SMTP, SNMP, NFS, UPnP, and iSCSI are supported.
- TCP, UDP and RTP for unicast.
- Remote search, playback and download, lock/unlock of video files; support breakpoint resume.
- Remote parameters setup; remote import/export of device parameters.
- Remote viewing of the device status, system logs and alarm status.
- Remote keyboard operation.
- Remote HDD formatting and program upgrading.
- Remote system restart and shutdown.
- RS-485 transparent channel transmission.
- Alarm and exception information can be sent to the remote host.
- Remotely start/stop recording.
- Remotely start/stop alarm output.
- Remote PTZ control.
- Embedded WEB server.

- **Development Scalability**

- SDK for Windows and Linux system.
- Source code of application software for demo.
- Development support and training for application system.

Panels & Interfaces

Front Panels



DS-7604NI-SE

- ① Status Indicator(Power, Status, Tx/Rx)
- ② USB Interface



DS-7608NI-SE

- ① Status Indicator(Power, Status, Tx/Rx)
- ② USB Interface

Rear Panels



DS-7604/08NI-SE

- ① LAN Network Interface
- ② RS-485 Interface
- ③ 12VDC Power Input
- ④ Power Switch
- ⑤ USB Interface
- ⑥ GND
- ⑦ HDMI Interface
- ⑧ VGA Output
- ⑨ Audio In
- ⑩ Audio Out

Specifications

Model		DS-7604NI-SE	DS-7608NI-SE	
Video/Audio input	IP video input	4-ch, 4CIF	8-ch, 4CIF	
	Voice input talk	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Video/Audio output	Decoding resolution	5MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz		
	CVBS	1-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 × 576 (PAL); 704 × 480 (NTSC) (optional)		
	Audio output	1-ch, RCA (Linear, 1kΩ).		
	Playback resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	Synchronous playback	4-ch	8-ch	
Hard disk	SATA	1 SATA interface for 1 HDD	2 SATA interfaces for 2 HDDs	
	Capacity	Up to 4TB for each disk		
External interface	Network interface	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface		
	Serial interface	1 RS-485 half-duplex interface		
	USB interface	2 × USB 2.0		
	Alarm in/out	4/1 (optional)		
Others	Power supply	12V DC		
	Consumption	≤ 10 W (without hard disk)		
	Working temperature	-10 °C ~ +55 °C		
	Working humidity	10 % ~ 90 %		
	Chassis	Stand-alone chassis 1U	19-inch rack-mounted chassis 1U	
	Dimensions (W × D × H)	315 × 230 × 45mm	445 × 290 × 45mm	
	Weight	≤ 2 Kg (without hard disk)		