

DP-2916NI-S
Network Video Recorder
Technical Manual

Overview

Developed on the basis of the latest technology, DP-2916NI-S Series Network Video Recorder has combined a series of patent and new technologies of video/audio encoding/decoding, embedded system, storage, network technology, etc.



DP-2916NI-S Series NVR

Main Features

Connection to IP camera, IP dome and video server
Connection to Hikvision, Panasonic, Sony, AXIS, Bosch, SANYO, Zavio, Provideo, Arecont, Acti, Pelco, Vivotec, Infinova IP cameras, etc
Support plug-and-play capability, quick addition and remote scanning of IPC
Support local storage at H.264, MPEG4 compression standard, etc
Stream storage at PS standard capsulation format
Different recording storage period configurable for each channel
Scheduled and event recording parameters configurable per individual camera
Search of record files by event type
Redundant recording
HDD management in groups
NTP, SADP, SMTP, NFS and SNMP protocols supported

Functions & Performances

Network

- Up to 10/100/1000Mbps self-adaptive UTP Ethernet interfaces.
- Support TCP/IP, PPPoE, DHCP, DNS, DDNS, NTP, SADP, SMTP, NFS/IP SAN and SNMP protocol.
- Unicast and multicast transmission; TCP, UDP, and RTP protocols supported in unicast.
- Remote search, playback and download, lock/unlock of video files; support breakpoint resume.
- Remote access and configuration of parameters; remote import/export of device configuration parameters.
- Remote access of device running status, system log and alarm status.
- Remote formatting of hard disk, upgrade, reboot/shutdown and other system maintenance operations.
- RS -232 transparent channel transmission.
- Event alarm and exceptions upload to remote management center.
- Remote manual recording.
- Remote PTZ control.
- Built-in WEB Server.

Recording and Playback

- Cycle and non-cycle recording mode.
- Scheduled and event video recording parameters configurable separately.
- Multiple recording types, including manual, continuous, alarm, motion, motion | alarm and motion & alarm recording, etc.
- 8 recording time periods configurable with separate recording types.
- Pre-record and post-record for relay alarm and motion detection.
- Search of record files by event type.
- Lock and unlock of video files.
- Local redundant recording.
- Configure specified record files in hard disk to read only.
- Video data search and playback by channel number, recording type, time etc.
- Support pause, play fast, play slow, skip forward, and skip backward when playback, locating in progress bar by dragging the mouse over client software.

Hard Disk Management

- Up to 8 SATA hard disks can be connected, with more than 2TB storage capacity for each disk.
- Support S.M.A.R.T technology.
- HDD standby function.
- HDD management in groups.

- HDD file system is compatible with Windows. Use pre-allocating hard disk management technology adopted to ensure no disk fragments.

Backup

- Record files backed up via eSATA.
- Backup by one-key operation.
- Remote control of record files backup by time and file type.

Alarm & Exception

- Unified management of relay alarm in/out of the unit and IP cameras.
- Unified management of video tempering alarm, motion and video loss alarm of IP cameras.
- Configurable arming time of alarm in/out.
- Various alarm types supported: alarms for video loss, motion detection, video tempering, illegal access, network disconnection, IP conflict, hard disk error and hard disk full.
- Various alarm response actions supported: camera recording, relay out, audible warning and upload to center, etc.
- Auto recovery from exceptions.

Others

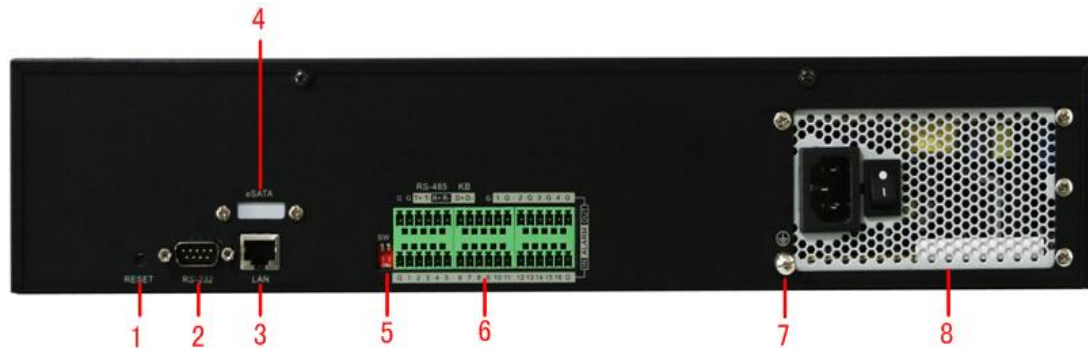
- Three-level user management, each user with individual operating permission for the unit.
- Powerful recording and search for logs of operation, alarm and exceptions.

Development

- Provision of SDK in Windows and Linux operating systems.
- Application software source code of Demo.
- Support and training service for application system development.

Rear Panel & Interfaces

Rear Panel of DP-2916NI-S



- ① RESET
- ② RS-232 Serial Interface
- ③ LAN (10/100/1000Mbps Self-adaptive UTP Ethernet interface)
- ④ eSATA Backup/Extended Storage Interface(optional)
- ⑤ RS-485 Matched Resistance Switch
- ⑥ RS-485 Serial Interface, ALARM IN, ALARM OUT
- ⑦ GND
- ⑧ 100~240VAC Power Input

Specifications

Model		DP-2916NI-S
Video/Audio input	IP video input	16-ch 4CIF/8-ch 720P/4-ch UXGA Real Time, or 8-ch UXGA/4-ch 5 Megapixel not Real Time
Hard disk	Type	8 SATA interfaces
	Capacity	Each interface supports more than 2TB capacity
External interface	Network interface	1,RJ-45, 10/100/1000Mbps adaptive Ethernet interface
	Serial interface	1 RS-232 interface (for parameters configuration, maintenance , transparent channel); 1 RS-485 interface (for PTZ control); 1 RS-485 keyboard interface (for special keyboard control)
	USB interface	2, USB2.0
	Alarm in	16
	Alarm out	4
Others	Power supply	100~240VAC, 6.3A, 50~60Hz
	Consumption	≤20W (without hard disk or DVD-R/W)
	Working temperature	-10℃~+55℃
	Working humidity	10%~90%
	Chassis	19" standard 2U chassis
	Size	450mm(D)×450mm(W)×95mm(H)
	Weight	≤8kg (without hard disk or DVD-R/W)