

QNAP NVR-104

Network Surveillance System for SOHO and Home
QNAP Network Video Recorder for IP Cameras

Live Monitoring, Recording, and Video Playback over the Internet Anytime, Anywhere
Secure Life, Secure Property

All-in-one Recording Functions

- Continuous/ schedule/ manual recording
- Alarm recording (by motion detection or sensor triggered)
- Multiple alarm recording schedules
- Up to 120 fps (4 channels) QVGA/ CIF recording
Up to 40 fps (4 channels) VGA recording
- High quality recording in Motion-JPEG, MPEG-4, and H.264
- Audio recording (depends on camera)

High Reliability and Smart Features

- Advanced RAID (0/ 1/ JBOD)
 - * RAID function is enabled via an external eSATA device
- Convenient video backup to external USB storage by one touch auto video backup button
- Supports UPS (Uninterruptible Power Supply) for 24x7 service
- Intelligent automatic system startup when power resumes after power outage

Powerful Surveillance Features

- Diversified modes for live monitoring
- Smart control of PTZ cameras and auto cruising
- Event notification on monitoring
- Real-time SMS and email alert
- Multi-channel playback at different speed
- Easy data search by date & time, timeline, event, and intelligent video analytics (motion detection, foreign object, missing object, out of focus, and camera occlusion)
- Enhanced file security by digital watermark

Easy to Use

- Trouble-free 6-step installation
- Intuitive web-based user interface
- Drag and drop function on monitoring

Green NVR Solution

- Linux-embedded system with energy saving design (18W only)



**Real-time monitoring
over the Internet anytime, anywhere !**



NVR-104

Secure Life, Secure Property

High Performance Network Surveillance System for SOHO and Home

The NVR-104 is an affordable and reliable network surveillance solution designed for the SMB and SOHO market. It features 4-channel M-JPEG, MPEG-4 and H.264 recording, up to 120 channels monitoring from multiple QNAP NVR servers, and is compatible with the IP cameras and video servers from **AXIS, ACTi, Arecont Vision, Canon, D-Link, EDIMAX, ELMO, EtoVision, GANZ, iPUX, IQeye, LevelOne, Messoa, MOBOTIX, Panasonic BB/ BL/ i-Pro, SANYO, SONY, TOSHIBA, TRENDnet, VIVOTEK,** and **Y-CAM.**

The NVR-104 is designed to house one SATA hard drive with maximum 1TB storage capacity. The Linux-embedded OS and standalone system design enhance the reliability and ease of maintenance of the NVR. The system can be set up by the IE browser in a few simple steps. No extra software is ever required.

Different live monitoring display options are available, e.g. multi-channel display mode, sequential display mode, exclusive Picture-in-Picture mode, and dual display mode. A variety of recording modes is also provided, such as continuous recording, schedule recording, manual recording, motion-detection recording, event-triggered recording, pre-alarm and post-alarm recording. Moreover, the NVR supports **video search by intelligent video analytics (IVA), including motion detection, foreign object, missing object, out of focus, and camera occlusion.**

The NVR-104 is an energy-saving system with the power consumption of less than 18W. An extremely quiet fan is equipped that enables the system to operate without much noise. It is a highly competent network surveillance solution for monitoring at home, office, campus, parking lots, and chain stores, etc.

Powerful Surveillance Features



• Diversified Monitoring Modes

- 1/ 4/ 6/ 8/ 9/ 10/ 12/ 16/ 20/ 25/ 36/ 42-channel display mode
- Sequential display mode
- Exclusive Picture-in-Picture mode
- Dual display mode



• Easy Drag and Drop Function on Monitoring

The VioStor NVR supports drag and drop function to change the display order of the monitoring channels.

• Smart Control of PTZ & Speed Dome Cameras

You can adjust the PTZ cameras directly by the web user interface.

• Preset Position Control and Auto Cruising

You can view different preset positions of the IP cameras by clicking the number buttons on the monitoring page. You can also configure auto cruising settings on the VioStor NVR for periodic monitoring of the preset positions of the PTZ cameras.

• Digital Zoom for Monitoring and Playback

The VioStor NVR supports digital zoom for more flexible monitoring and playback.

• Event Notification

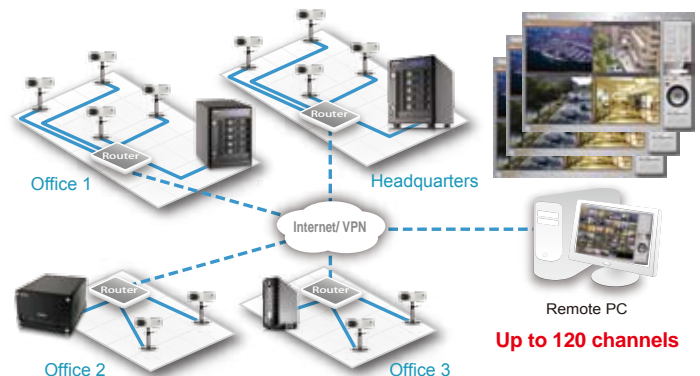
When alarm recording is enabled and an event occurs, you can click the alarm icon on monitoring page to view the alert details.

• Video Snapshot

The snapshot function is supported on monitoring and playback page.

• Multi-server Monitoring

You can connect to the VioStor NVR and add other QNAP NVR servers to monitor up to 120 channels over LAN or WAN.



• All-in-one Recording Functions

- Continuous/ schedule/ manual recording
 - Alarm recording/ multiple alarm recording schedules
 - High quality Motion-JPEG, MPEG-4, and H.264 recording
 - High performance megapixel recording
 - Audio recording (depends on the cameras)
- * Up to 15 schedules are supported for each camera

• Real-time SMS and Email Alert

The NVR sends SMS and e-mail alert to the administrator immediately in case of system error or emergent events.



• Authority Management

You can configure the monitoring and playback authority of specified cameras for up to 32 users.

• On-line User List and Host Access Control

You can specify the connections to be allowed and denied to access the VioStor NVR. You can also view the record of users currently logged on and previously logged on to the VioStor NVR.

• Flexible Adjustment of the Length of Recording Files

You can flexibly adjust the length of the recording files.

• Schedule Remote Replication

The VioStor NVR supports schedule remote replication for secure data backup to a remote NAS.

• Advanced Event Logs

The VioStor NVR provides detailed event logs of system warning, hard disk error, network disconnection, UPS status, users' networking services, and recordings access record.



• Multi-channel Playback at Different Speed

The VioStor NVR provides Express Quad View Playback that you can either divide the selected time equally into four playback views or play the video of four cameras at the same time.

• Enhanced File Security by Digital Watermark

The digital watermark technology allows you to check if the recording files on VioStor NVR are modified to enhance the file security.



• Data Search by Date & Time, Timeline, Event and Intelligent Video Analytics (IVA)

The VioStor NVR supports quick search of recording data by date and time, timeline, and events, and intelligent video analytics, including **motion detection**, **foreign object**, **missing object**, **out of focus**, and **camera occlusion**.

Motion Detection:

The moving objects of the searching area are highlighted in red brackets.



Foreign Object:

The foreign objects of the searching area are highlighted in yellow brackets.



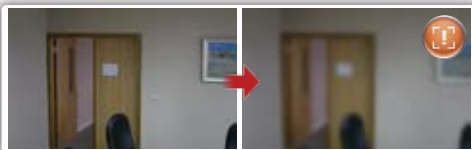
Missing Object:

The missing objects of the searching area are highlighted in yellow brackets.



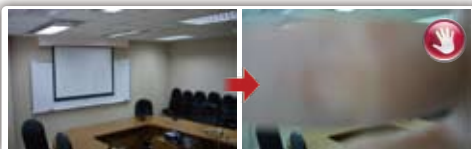
Out of Focus:

Detects if the IP camera is out of focus.



Camera Occlusion:

Detects if the IP camera is obstructed.



High Reliability and Smart Features

• Advanced RAID (0/ 1/ JBOD) (RAID function is enabled via an external eSATA device)

The NVR-104 supports advanced RAID 1 mirroring for secure data protection by connecting to an external enclosure.

• Auto Logoff

The administrator can set the timeout period to log off the users when the idling time has reached in order to enhance secure management of the NVR.

• Intelligent Automatic System Startup

The NVR-104 supports intelligent power-on support. When enabled, the NVR turns on automatically when the power resumes after power outage.

• Supports UPS System for 24x7 Service

• Convenient Video Backup by One Touch Auto Video Backup Button

The video data can be exported to an external storage device by the one touch auto video backup button for ease of archiving.

Easy to Use

• Easy System Setup in 6 Steps

The VioStor NVR provides quick setup for users to complete installation in 6 simple steps.

• Intuitive Web-based User Interface

All system configurations, monitoring, and playback can be finished by the web-based interface.

• Smart Search of IP Camera for Quick Settings

QNAP provides an intelligent software utility Finder for quick IP camera search and system settings.

• Convenient Quick Link Buttons of Network Camera

Besides configuring the network cameras by the administration interface of NVR, users can make use of the quick link buttons to access the management interface of the network cameras to configure the cameras.

Excellent Hardware Design

• Embedded System with Low Power Consumption

Built on Linux OS, the NVR-104 is less vulnerable to virus attack and more energy-saving than PC-based surveillance solutions.



• Up to 1TB Storage Capacity, Expandable to 2TB through an External eSATA Device

The NVR-104 is an excellent choice for long-term recording and storing large amount of recording data.

• Small-sized, Easy to Deploy

The NVR-104 occupies small space. It is easy to install and maintain.

Powerful Network Services

• Built-in NTP Server

• Built-in DDNS Support

• Convenient Data Access

You can access the recording data on the NVR-104 by:

Network Neighborhood (SMB/ CIFS)/ Web File Management (HTTP)/ FTP server.

Application: Live Monitoring, Recording, and Video Playback over the Internet Anytime, Anywhere

• Business Service

- Live production line monitoring for quality and security control
- Department store/ mall monitoring
- Shipping process recording

- Crime prevention, e.g. shoplifting
- Parking lot monitoring
- Construction site monitoring
- Convenience store security
- Campus security

- Server room security
- Gas station security
- Hotel security
- Multiple remote offices/ factory sites live monitoring

• Office Management

- Real-time office monitoring from remote locations
- In-house office monitoring
- Office security fortification
- False alarm identification

• Home Care

- Home surveillance to secure life and property
- Enhanced protection for kids, elders, and pets
- Crime prevention
- Evidence or aid to police investigations

